TOSHIBA

FILE NO. 023-200312

SERVICE MANUAL

COLOR TELEVISION

N3PS Chassis

32HF73, 36HF73

(TAC0326) *(TAC0325)*

– SUMMARY –

32HF73, 36HF73 are the same as 36HF72 except for the parts tabled on back of this sheet.
Use this service manual together with the service manual of 36HFX72, 36HF72 (File No. 020-200206).

DOCUMENT CREATED IN JAPAN, Jun., 2003

REPLACEMENT PARTS LIST DIFFERENCES

Location No.	Part No.	Description
A201	23530947	Cover, Front Cover Assy (32HF73)
A201	23530907	Cover, Front Cover Assy (36HF73)
A213	23428207	Door, REG, SRS
A223	23445726	Button, PWR Button, RRG
A224	23445728	Button, Control
A701	23064255	Carton (32HF73)
A703	23946056	Packing, Top (32HF73)
A708	23946057	Packing, Bottom (32HF73)
C101	24796339	EL, 3.3μF, ±20%, 35V
C102	24665221	EL, 220μF, ±20%, 10V
C103	24100102	Chip, 1000pF, +80%, -20%
C105	24100102	Chip, 1000pF, +80%, -20%
C106	24669479	EL, 4.7μF, ±20%, 50V
C107	24666221	EL, 220μF, ±20%, 16V
C112	24665221	EL, 220μF, ±20%, 10V
C115	24100102	Chip, 1000pF, +80%, -20%
C117	24666221	EL, 220μF, ±20%, 16V
C118	24665221	EL, 220μF, ±20%, 10V
C198	24100104	Chip, 0.1μF, +80%, -20%, 25V
C201	24109103	Chip, 0.01μF, ±10%
C201	24203100	EL, 10μF, ±20%, 16V
C202	24100104	Chip, 0.1μF, +80%, -20%, 25V
C203	24100104	Chip, 0.1μF, +80%, -20%, 25V
C204	24100104	Chip, 0.1μF, +80%, -20%, 25V
C205	24100104	Chip, 0.1μF, +80%, -20%, 25V
C205	24766229	EL, 2.2μF, ±20%, 50V
C206	24100104	Chip, 0.1μF, +80%, -20%, 25V
C207	24203100	EL, 10μF, ±20%, 16V
C208	24100104	Chip, 0.1μF, +80%, -20%, 25V
C209	24100104	Chip, 0.1μF, +80%, -20%, 25V
C210	24100104	Chip, 0.1μF, +80%, -20%, 25V
C211	24100104	Chip, 0.1μF, +80%, -20%, 25V
C212	24203100	EL, 10μF, ±20%, 16V
C213	24100104	Chip, 0.1μF, +80%, -20%, 25V
C214	24100104	Chip, 0.1μF, +80%, -20%, 25V
C215	24100104	Chip, 0.1μF, +80%, -20%, 25V
C216	24203100	EL, 10μF, ±20%, 16V
C217	24100104	Chip, 0.1μF, +80%, -20%, 25V
C218	24100104	Chip, 0.1μF, +80%, -20%, 25V
C219	24109103	Chip, 0.01μF, ±10%
C220	24206479	EL, 4.7μF, ±20%, 50V
C221	24203100	EL, 10μF, ±20%, 16V
C222	24100104	Chip, 0.1μF, +80%, -20%, 25V
C223	24100104	Chip, 0.1μF, +80%, -20%, 25V
C224	24100104	Chip, 0.1μF, +80%, -20%, 25V
C225	24203100	EL, 10μF, ±20%, 16V
C226	24100104	Chip, 0.1μF, +80%, -20%, 25V
C227	24100104	Chip, 0.1μF, +80%, -20%, 25V
C228	24100104	Chip, 0.1μF, +80%, -20%, 25V
C229	24100104	Chip, 0.1μF, +80%, -20%, 25V
C230	24100104	Chip, 0.1μF, +80%, -20%, 25V
C231	24100104	Chip, 0.1μF, +80%, -20%, 25V
C232	24203100	EL, 10μF, ±20%, 16V
C233	24109103	Chip, 0.01μF, ±10%
C236	24100104	Chip, 0.1μF, +80%, -20%, 25V
C237	24100104	Chip, 0.1μF, +80%, -20%, 25V
C238	24203100	EL, 10μF, ±20%, 16V
C239	24100104	Chip, 0.1μF, +80%, -20%, 25V

Location No.	Part No.	Description
C240	24100104	Chip, 0.1μF, +80%, -20%, 25V
C241	24100104	Chip, 0.1μF, +80%, -20%, 25V
C242	24100104	Chip, 0.1μF, +80%, -20%, 25V
C243	24203100	EL, 10μF, ±20%, 16V
C244	24100104	Chip, 0.1μF, +80%, -20%, 25V
C245	24105560	Chip, 56pF
C246	24105150	Chip, 15pF
C247	24105270	Chip, 27pF
C248	24105101	Chip, 100pF
C249	24105820	Chip, 820pF
C250	24105560	Chip, 56pF
C251	24105150	Chip, 15pF
C252	24105270	Chip, 27pF
C253	24105101	Chip, 100pF
C254	24105820	Chip, 820pF
C255	24105560	Chip, 56pF
C256	24105150	Chip, 15pF
C257	24105270	Chip, 27pF
C258	24105101	Chip, 100pF
C259	24105820	Chip, 820pF
C260	24203100	EL, 10μF, ±20%, 16V
C261	24203100	EL, 10μF, ±20%, 16V
C262	24100104	Chip, 0.1μF, +80%, -20%, 25V
C263	24100104	Chip, 0.1μF, +80%, -20%, 25V
C264	24105100	Chip, 10pF, ±0.5pF
C265	24105100	Chip, 10pF, ±0.5pF
C266	24105100	Chip, 10pF, ±0.5pF
C267	24100104	Chip, 0.1μF, +80%, -20%, 25V
C268	24105101	Chip, 100pF
C269	24105101	Chip, 100pF
C272	24100104	Chip, 0.1μF, +80%, -20%, 25V
C273	24100104	Chip, 0.1μF, +80%, -20%, 25V
C308	24797221	EL, 220μF, ±20%, 50V
C310	24667102	EL, 1000μF, ±20%, 25V
C316	24795471	EL, 470μF, ±20%, 25V
C320	24795471	EL, 470μF, ±20%, 25V
C322	24539105	PF, 1μF
C323	24539105	PF, 1μF
C326	24669010	EL, 1μF, ±20%, 50V
C333	24109332	Chip, 3300pF, ±10%
C362	24591222	PF, 2200pF
C366	24693103	PF, 0.01μF, 100V
C370	24666100	EL, 10μF, ±20%, 16V
C392	24794100	EL, 10μF, ±20%, 16V
C393	24666470	EL, 47μF, ±20%, 16V
C396	24503065	PF, 1800pF, 1800V
C398	24590103	PF, 0.01μF
C399	24666470	EL, 47μF, ±20%, 16V
C402	24092463	Chip, 0.22μF, ±10%, 16V
C404	24669229	EL, 2.2μF, ±20%, 50V
C406	24109223	Chip, 0.022μF, ±10%, 25V
C410	24109221	Chip, 220pF, ±10%
C418	24667221	EL, 220μF, ±20%, 25V
⚠C428	24503280	PF, 0.47μF, 400V
C432	24763101	EL, 100μF, ±20%, 16V
C439	24829563	PF, 0.056μF, 400V
⚠C442	24503280	PF, 0.47μF, 400V
⚠C443	24503200	PF, 8200pF, ±20%, 1800V
⚠C444	24503196	PF, 5600pF, ±20%, 1800V
C445	24095804	PF, 0.056μF, 400V

Location No.	Part No.	Description
C446	24073120	EL, 33μF, ±20%, 250V
C448	24073118	EL, 33μF, ±20%, 160V
C449	24667102	EL, 1000μF, ±20%, 25V
C450	24092341	CD, 470pF, ±10%, 2kV
C451	24092341	CD, 470pF, ±10%, 2kV
C452	24820103	PF, 0.01μF, 630V
⚠C461	24820183	PF, 0.018μF, 630V
C464	24503149	PF, 3.3μF, 250V
C465	24591183	PF, 0.018μF
C466	24679220	EL, 22μF, ±20%, 250V
⚠C467	24820123	PF, 0.012μF, 630V
C468	24591823	PF, 0.082μF
C469	24591122	PF, 1200pF
C482	24109122	Chip, 1200pF, ±10%
C502	24092730	Chip, 0.1μF, ±10%, 16V
C503	24666471	EL, 470μF, ±20%, 16V
C508	24092730	Chip, 0.1μF, ±10%, 16V
C509	24666101	EL, 100μF, ±20%, 16V
C520	24567334	PF, 0.33μF
C524	24109103	Chip, 0.01μF, ±10%
C525	24109103	Chip, 0.01μF, ±10%
C526	24109103	Chip, 0.01μF, ±10%
C527	24109103	Chip, 0.01μF, ±10%
C528	24109103	Chip, 0.01μF, ±10%
C529	24109103	Chip, 0.01μF, ±10%
C535	24109103	Chip, 0.01μF, ±10%
C536	24109103	Chip, 0.01μF, ±10%
C537	24109103	Chip, 0.01μF, ±10%
C538	24100104	Chip, 0.1μF, +80%, -20%, 25V
C540	24092538	Chip, 1μF, +80%, -20%, 10V
C541	24092538	Chip, 1μF, +80%, -20%, 10V
C542	24092538	Chip, 1μF, +80%, -20%, 10V
C563	24797010	EL, 1μF, ±20%, 50V
C568	24100104	Chip, 0.1μF, +80%, -20%, 25V
C571	24109103	Chip, 0.01μF, ±10%
C582	24761102	EL, 1000μF, ±20%, 6.3V
C583	24761102	EL, 1000μF, ±20%, 6.3V
C584	24797010	EL, 1μF, ±20%, 50V
C585	24109103	Chip, 0.01μF, ±10%
C586	24761102	EL, 1000μF, ±20%, 6.3V
C661	24109821	Chip, 820pF, ±10%
C662	24109821	Chip, 820pF, ±10%
C672	24073084	EL, 4.7μF, ±20%, 50V
C673	24073084	EL, 4.7μF, ±20%, 50V
C678	24073084	EL, 4.7μF, ±20%, 50V
C801	24203101	EL, 100μF, ±20%, 16V
C802	24203100	EL, 10μF, ±20%, 16V
C803	24100104	Chip, 0.1μF, +80%, -20%, 25V
C804	24617033	EL, 4.7μF, ±20%, 25V
C805	24203100	EL, 10μF, ±20%, 16V
C806	24100104	Chip, 0.1μF, +80%, -20%, 25V
C808	24214103	CD, 0.01μF, ±10%, 500V
⚠C811	24092583	CD, 2200pF, ±20%, AC250V
⚠C812	24092583	CD, 2200pF, ±20%, AC250V
⚠C815	24092591	CD, 470pF, ±10%, AC250V
C817	24590102	PF, 1000pF
C818	24539104	PF, 0.1μF
C829	24794101	EL, 100μF, ±20%, 16V
C830	24503047	PF, 0.33μF, 63V
C831	24795470	EL, 47μF, ±20%, 25V
C832	24794101	EL, 100μF, ±20%, 16V
C833	24503041	PF, 0.1μF, 63V
C833	24794101	EL, 100μF, ±20%, 16V
C834	24503041	PF, 0.1μF, 63V
C835	24214331	CD, 330pF, ±10%, 500V

Location No.	Part No.	Description
C835	24795470	EL, 47μF, ±20%, 25V
C838	24617040	EL, 1000μF, ±20%, 25V
C839	24503047	PF, 0.33μF, 63V
C840	24679220	EL, 22μF, ±20%, 250V
C841	24073043	EL, 2200μF, ±20%, 16V
C842	24503041	PF, 0.1μF, 63V
C843	24092469	CD, 100pF, ±10%, 2kV
C844	24793221	EL, 220μF, ±20%, 10V
C845	24073082	EL, 2.2μF, ±20%, 50V
C847	24795470	EL, 47μF, ±20%, 25V
C848	24796222	EL, 2200μF, ±20%, 35V
C849	24794222	EL, 2200μF, ±20%, 16V
C870	24503208	PF, 0.24μF, ±20%, 400V
C873	24503045	PF, 0.22μF, 63V
C884	24640018	EL, 220μF, ±20%, 160V
C889	24796332	EL, 3300μF, ±20%, 35V
C891	24082227	PF, 0.068μF, ±10%, 250V
C893	24092333	CD, 100pF, ±10%, 2kV
C894	24092333	CD, 100pF, ±10%, 2kV
C895	24794222	EL, 2200μF, ±20%, 16V
C897	24796102	EL, 1000μF, ±20%, 35V
C898	24503047	PF, 0.33μF, 63V
C902	24092349	CD, 2200pF, ±10%, 2kV
C2020	24109103	Chip, 0.01μF, ±10%
C2102	24108100	Chip, 10pF, ±0.5pF
C2103	24108100	Chip, 10pF, ±0.5pF
C2104	24108100	Chip, 10pF, ±0.5pF
C2112	24109103	Chip, 0.01μF, ±10%
C2113	24092731	Chip, 1μF, ±10%, 16V
C3100	24667102	EL, 1000μF, ±20%, 25V
C3110	24092730	Chip, 0.1μF, ±10%, 16V
C3150	24669229	EL, 2.2μF, ±20%, 50V
C3301	24073037	EL, 47μF, ±20%, 16V
C3302	24105102	Chip, 1000pF, 25V
C3303	24092730	Chip, 0.1μF, ±10%, 16V
C3304	24105471	Chip, 470pF
C4010	24109331	Chip, 330pF, ±10%
C4401	24073039	EL, 220μF, ±20%, 16V
C4402	24109103	Chip, 0.01μF, ±10%
C4403	24766010	EL, 1μF, ±20%, 50V
C4404	24109103	Chip, 0.01μF, ±10%
C4407	24763221	EL, 220μF, ±20%, 16V
C4410	24109122	Chip, 1200pF, ±10%
C4420	24109103	Chip, 0.01μF, ±10%
C4427	24092538	Chip, 1μF, +80%, -20%, 10V
C4460	24085007	EL, 4.7μF, ±20%, 35V, Non-Polar
C4461	24539224	PF, 0.22μF
C4690	24109103	Chip, 0.01μF, ±10%
C4691	24109822	Chip, 8200pF, ±10%, 25V
C4693	24591473	PF, 0.047μF
C4811	24567474	PF, 0.47μF
C5030	24763101	EL, 100μF, ±20%, 16V
C5080	24797010	EL, 1μF, ±20%, 50V
C5090	24763101	EL, 100μF, ±20%, 16V
CA09	24109103	Chip, 0.01μF, ±10%
CA15	24109103	Chip, 0.01μF, ±10%
CA22	24109103	Chip, 0.01μF, ±10%
CA25	24100103	Chip, 0.01μF, +80%, -20%
CA33	24100103	Chip, 0.01μF, +80%, -20%
CA46	24105471	Chip, 470pF
CA49	24105101	Chip, 100pF
CA52	24109103	Chip, 0.01μF, ±10%
CA55	24105101	Chip, 100pF
CA59	24105101	Chip, 100pF

Location No.	Part No.	Description
CA68	24666100	EL, 10μF, ±20%, 16V
CA82	24503049	PF, 0.47μF, 63V
CA95	24100103	Chip, 0.01μF, +80%, -20%
CA371	24105820	Chip, 820pF
CA381	24105820	Chip, 820pF
CA391	24105820	Chip, 820pF
CA611	24109103	Chip, 0.01μF, ±10%
CB40	24092538	Chip, 1μF, +80%, -20%, 10V
CB41	24109222	Chip, 2200pF, ±10%
CB42	24105561	Chip, 560pF
CB43	24109332	Chip, 3300pF, ±10%
CB62	24105331	Chip, 330pF
CB91	24666100	EL, 10μF, ±20%, 16V
CC01	24109102	Chip, 1000pF, ±10%
CC01	24203100	EL, 10μF, ±20%, 16V
CC02	24100104	Chip, 0.1μF, +80%, -20%, 25V
CC02	24109102	Chip, 1000pF, ±10%
CC03	24109102	Chip, 1000pF, ±10%
CC03	24203100	EL, 10μF, ±20%, 16V
CC04	24100104	Chip, 0.1μF, +80%, -20%, 25V
CC04	24109102	Chip, 1000pF, ±10%
CC05	24109102	Chip, 1000pF, ±10%
CC06	24109102	Chip, 1000pF, ±10%
CC07	24109102	Chip, 1000pF, ±10%
CC08	24109102	Chip, 1000pF, ±10%
CC11	24109102	Chip, 1000pF, ±10%
CC12	24109102	Chip, 1000pF, ±10%
CC15	24109102	Chip, 1000pF, ±10%
CC16	24109102	Chip, 1000pF, ±10%
CI01	24109103	Chip, 0.01μF, ±10%
CI02	24109103	Chip, 0.01μF, ±10%
CI03	24109103	Chip, 0.01μF, ±10%
CI04	24109103	Chip, 0.01μF, ±10%
CI05	24109103	Chip, 0.01μF, ±10%
CI07	24109103	Chip, 0.01μF, ±10%
CI08	24797010	EL, 1μF, ±20%, 50V
CI09	24105470	Chip, 47pF
CI10	24105180	Chip, 18pF
CI11	24105270	Chip, 27pF
CI12	24797478	EL, 0.47μF, ±20%, 50V
CI13	24109102	Chip, 1000pF, ±10%
CI14	24105470	Chip, 47pF
CI15	24105390	Chip, 39pF
CI16	24109103	Chip, 0.01μF, ±10%
CI17	24092726	Chip, 2.2μF, ±10%, 16V
CI18	24105181	Chip, 180pF
CI21	24109103	Chip, 0.01μF, ±10%
CI23	24109103	Chip, 0.01μF, ±10%
CI25	24105240	Chip, 24pF
CI51	24797220	EL, 22μF, ±20%, 50V
CI52	24794101	EL, 100μF, ±20%, 16V
CI53	24797339	EL, 3.3μF, ±20%, 50V
CJ03	24539104	PF, 0.1μF
CJ04	24503041	PF, 0.1μF, 63V
CJ05	24503041	PF, 0.1μF, 63V
CS01	24797229	EL, 2.2μF, ±20%, 50V
CS02	24797229	EL, 2.2μF, ±20%, 50V
CS03	24797229	EL, 2.2μF, ±20%, 50V
CS04	24797229	EL, 2.2μF, ±20%, 50V
CS05	24797229	EL, 2.2μF, ±20%, 50V
CS06	24797229	EL, 2.2μF, ±20%, 50V
CS07	24797229	EL, 2.2μF, ±20%, 50V
CS08	24797229	EL, 2.2μF, ±20%, 50V
CS09	24797229	EL, 2.2μF, ±20%, 50V
CS11	24797229	EL, 2.2μF, ±20%, 50V

Location No.	Part No.	Description
CS12	24797229	EL, 2.2μF, ±20%, 50V
CS13	24794100	EL, 10μF, ±20%, 16V
CS14	24794100	EL, 10μF, ±20%, 16V
CS15	24797229	EL, 2.2μF, ±20%, 50V
CS19	24797479	EL, 4.7μF, ±20%, 50V
CS20	24797478	EL, 0.47μF, ±20%, 50V
CS21	24797479	EL, 4.7μF, ±20%, 50V
CS22	24797479	EL, 4.7μF, ±20%, 50V
CS24	24797229	EL, 2.2μF, ±20%, 50V
CS25	24794470	EL, 47μF, ±20%, 16V
CS26	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS27	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS31	24797229	EL, 2.2μF, ±20%, 50V
CS119	24797229	EL, 2.2μF, ±20%, 50V
CS120	24109103	Chip, 0.01μF, ±10%
CS121	24797229	EL, 2.2μF, ±20%, 50V
CV01	24092621	Chip, 1μF, ±10%, 10V
CV02	24092621	Chip, 1μF, ±10%, 10V
CV03	24092621	Chip, 1μF, ±10%, 10V
CV04	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV05	24092621	Chip, 1μF, ±10%, 10V
CV06	24092621	Chip, 1μF, ±10%, 10V
CV07	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV08	24794101	EL, 100μF, ±20%, 16V
CV09	24092621	Chip, 1μF, ±10%, 10V
CV10	24794100	EL, 10μF, ±20%, 16V
CV11	24092621	Chip, 1μF, ±10%, 10V
CV12	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV13	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV14	24092621	Chip, 1μF, ±10%, 10V
CV15	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV23	24794101	EL, 100μF, ±20%, 16V
CV24	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV38	24109102	Chip, 1000pF, ±10%
CV39	24109102	Chip, 1000pF, ±10%
CV40	24794101	EL, 100μF, ±20%, 16V
CV42	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV45	24092621	Chip, 1μF, ±10%, 10V
CV46	24092621	Chip, 1μF, ±10%, 10V
CV47	24092621	Chip, 1μF, ±10%, 10V
CV64	24794471	EL, 470μF, ±20%, 16V
CV65	24794101	EL, 100μF, ±20%, 16V
CV66	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV67	24794100	EL, 10μF, ±20%, 16V
CV68	24100104	Chip, 0.1μF, +80%, -20%, 25V
CV238	24109103	Chip, 0.01μF, ±10%
CV244	24109103	Chip, 0.01μF, ±10%
CV245	24092441	Chip, 1μF, +80%, -20%, 16V
CV246	24092441	Chip, 1μF, +80%, -20%, 16V
CV247	24092441	Chip, 1μF, +80%, -20%, 16V
CV248	24109103	Chip, 0.01μF, ±10%
CV249	24092441	Chip, 1μF, +80%, -20%, 16V
CV250	24092441	Chip, 1μF, +80%, -20%, 16V
CV251	24092441	Chip, 1μF, +80%, -20%, 16V
CV252	24109103	Chip, 0.01μF, ±10%
CV253	24092441	Chip, 1μF, +80%, -20%, 16V
CV254	24092441	Chip, 1μF, +80%, -20%, 16V
CV255	24092441	Chip, 1μF, +80%, -20%, 16V
CV256	24109103	Chip, 0.01μF, ±10%
CV257	24203100	EL, 10μF, ±20%, 16V
CV258	24666471	EL, 470μF, ±20%, 16V
CV259	24109103	Chip, 0.01μF, ±10%
CV261	24109103	Chip, 0.01μF, ±10%

Location No.	Part No.	Description
CV263	24109103	Chip, 0.01μF, ±10%
CY101	24092441	Chip, 1μF, +80%, -20%, 16V
CY102	24794101	EL, 100μF, ±20%, 16V
CY103	24100104	Chip, 0.1μF, +80%, -20%, 25V
CY104	24109103	Chip, 0.01μF, ±10%
CY105	24109103	Chip, 0.01μF, ±10%
CY106	24109103	Chip, 0.01μF, ±10%
CY107	24794100	EL, 10μF, ±20%, 16V
CY108	24100104	Chip, 0.1μF, +80%, -20%, 25V
CY109	24105101	Chip, 100pF
CY111	24109103	Chip, 0.01μF, ±10%
CY112	24105181	Chip, 180pF
CY113	24109103	Chip, 0.01μF, ±10%
CY114	24109103	Chip, 0.01μF, ±10%
CY115	24105390	Chip, 39pF
CY116	24105470	Chip, 47pF
CY117	24105180	Chip, 18pF
CY501	24109103	Chip, 0.01μF, ±10%
CY502	24092730	Chip, 0.1μF, ±10%, 16V
CY504	24109222	Chip, 2200pF, ±10%
CY505	24105120	Chip, 12pF
CY506	24109103	Chip, 0.01μF, ±10%
CY508	24092730	Chip, 0.1μF, ±10%, 16V
CY512	24092463	Chip, 0.22μF, ±10%, 16V
CY513	24092730	Chip, 0.1μF, ±10%, 16V
CY514	24092730	Chip, 0.1μF, ±10%, 16V
CY515	24092730	Chip, 0.1μF, ±10%, 16V
CY516	24109103	Chip, 0.01μF, ±10%
CY517	24092731	Chip, 1μF, ±10%, 16V
CY524	24092730	Chip, 0.1μF, ±10%, 16V
CY525	24092730	Chip, 0.1μF, ±10%, 16V
CY526	24092730	Chip, 0.1μF, ±10%, 16V
CY538	24794222	EL, 2200μF, ±20%, 16V
CY539	24794470	EL, 47μF, ±20%, 16V
CY582	24105101	Chip, 100pF
D101	23316755	Diode, Zener, MTZJ33C
D102	23316574	Diode, Zener CHIP VZ6.05-6.36V MA8062-M
D112	23316574	Diode, Zener CHIP VZ6.05-6.36V MA8062-M
D201	23118041	Diode, MA111-(TX)-(TX)
D202	23118041	Diode, MA111-(TX)-(TX)
D203	23118041	Diode, MA111-(TX)-(TX)
D204	23118041	Diode, MA111-(TX)-(TX)
D205	23316573	Diode, Zener, MA8062-L
D206	23316573	Diode, Zener, MA8062-L
D230	23316231	Diode, 1SS355-TE17
D301	23357366	Diode, FR105-FL
D303	23118094	Diode, EU2A, LF-F10, LF-F10
D318	23118859	Diode, 1SS133
D321	23316754	Diode, Zener, MTZJ33B
D327	23118515	Diode, Zener, RD11ESA B1
D330	23316794	Diode, SC570ALFE2
D365	23316678	Diode, Zener, MTZJ6.8B
D372	23118859	Diode, 1SS133
D373	23118859	Diode, 1SS133
D374	23316716	Diode, Zener, MTZJ11B
D390	23316668	Diode, Zener, MTZJ5.1A
D414	23118094	Diode, EU2A, LF-F10
D431	23316690	Diode, Zener, MTZJ10B
D439	23316690	Diode, Zener, MTZJ10B
D462	23316725	Diode, Zener, MTZJ15B
D465	23118094	Diode, EU2A, LF-F10
D469	23118859	Diode, 1SS133
D470	23118604	Diode, Zener, RD36ESA B2

Location No.	Part No.	Description
D475	23316720	Diode, Zener, MTZJ12C
D480	23316573	Diode, Zener, MA8062-L
D485	23316688	Diode, Zener, MTZJ9.1C
D522	23316231	Diode, 1SS355
D523	23316231	Diode, 1SS355
D535	23316591	Diode, Zener, MA8100-M
D834	23316269	Diode, AK04
D835	23316637	Diode, SCHOTTKY, FMB-G14L
D840	23357207	Diode, LN1WBA60
D841	23316673	Diode, Zener, MTZJ5.6C
D842	23316665	Diode, Zener, MTZJ4.7A
D843	23118094	Diode, EU2A, LF-F10
D846	23118633	Diode, Zener, RD3.0ES B2
D847	23118633	Diode, Zener, RD3.0ES B2
D848	23118859	Diode, 1SS133
D864	23357366	Diode, FR105-B5
D885	23357042	Diode, FMX-12S(023-108)
D891	23357042	Diode, FMX-12S(023-108)
D895	23357042	Diode, FMX-12S(023-108)
D4401	23316591	Diode, Zener, MA8100-M
D4603	23316231	Diode, 1SS355-TE17
D4819	23316454	SCR, SF0R3G42NG5H
DB61	23118041	Diode, MA111-(TX)
DC01	23118041	Diode, MA111-(TX)
DC02	23118041	Diode, MA111-(TX)
DC03	23118041	Diode, MA111-(TX)
DC04	23118041	Diode, MA111-(TX)
DV01	23316591	Diode, Zener, MA8100-M
DV07	23316577	Diode, Zener, MA8068-M
DV14	23316577	Diode, Zener, MA8068-M
DV21	23316577	Diode, Zener, MA8068-M
DV22	23316673	Diode, Zener, MTZJ5.6C
DV23	23316673	Diode, Zener, MTZJ5.6C
DV241	23316591	Diode, Zener, MA8100-M
DV242	23316591	Diode, Zener, MA8100-M
DV243	23316591	Diode, Zener, MA8100-M
DV244	23316591	Diode, Zener, MA8100-M
DV249	23316591	Diode, Zener, MA8100-M
DV250	23316591	Diode, Zener, MA8100-M
DV251	23316577	Diode, Zener, MA8068-M
DV252	23316577	Diode, Zener, MA8068-M
DV256	23316591	Diode, Zener, MA8100-M
DV257	23316591	Diode, Zener, MA8100-M
DV258	23316591	Diode, Zener, MA8100-M
⚠F801	23144518	Fuse, 10A, 125V
⚠F840	23144581	Fuse, 200MA, 125V
⚠F889	23144681	Fuse, 4.0A, 125V
G101	24011151	Chip, 150 ohm, 1/20W
G102	24011151	Chip, 150 ohm, 1/20W
G301	23103145	Coil (Ferrite Bead), TEM2011AA
G306	24366103	CF, 10k ohm
G313	24591223	PF, 0.022μF
G400	24946561	CC, 560 ohm, 1/2W
G404	23103145	Coil (Ferrite Bead), TEM2011AA
G410	23316731	Diode, Zener, MTZJ18B
G499	24693122	PF, 1200pF, 100V
G500	23289470	Coil, Peaking, TRF4470AF
⚠G883	23118631	Diode, Zener, RD3.3ESA B2
G901	23289470	Coil, Peaking, TRF4470AF
G902	23289470	Coil, Peaking, TRF4470AF
GJ101	24000445	Chip Jumper, 1680 Type
GJ102	24000445	Chip Jumper, 1680 Type
GJ103	24000445	Chip Jumper, 1680 Type
GJ105	24000445	Chip Jumper, 1680 Type
GJ107	24000445	Chip Jumper, 1680 Type

Location No.	Part No.	Description
GJ108	24000445	Chip Jumper, 1680 Type
GJ201	24000445	Chip Jumper, 1680 Type
GJ202	24000445	Chip Jumper, 1680 Type
GJ203	24000445	Chip Jumper, 1680 Type
GJ204	24011220	Chip, 22 ohm, 1/20W
GJ205	24000445	Chip Jumper, 1680 Type
GJ208	24000445	Chip Jumper, 1680 Type
GJ210	24000445	Chip Jumper, 1680 Type
GJ213	24000445	Chip Jumper, 1680 Type
GJ216	24000445	Chip Jumper, 1680 Type
GJ223	24000445	Chip Jumper, 1680 Type
GJ224	24000445	Chip Jumper, 1680 Type
GJ225	24000445	Chip Jumper, 1680 Type
GJ226	24000445	Chip Jumper, 1680 Type
GJ227	24000445	Chip Jumper, 1680 Type
GJ228	24000445	Chip Jumper, 1680 Type
GJ229	24000445	Chip Jumper, 1680 Type
GJ230	24000445	Chip Jumper, 1680 Type
GJ255	24000445	Chip Jumper, 1680 Type
GJ256	24000445	Chip Jumper, 1680 Type
GJ267	24000445	Chip Jumper, 1680 Type
GJ275	24000445	Chip Jumper, 1680 Type
GJ401	24000445	Chip Jumper, 1680 Type
GJ501	24000445	Chip Jumper, 1680 Type
GJ502	24000445	Chip Jumper, 1680 Type
GJ561	24000445	Chip Jumper, 1680 Type
GJ562	24000445	Chip Jumper, 1680 Type
GJ563	24000445	Chip Jumper, 1680 Type
GJ572	24000445	Chip Jumper, 1680 Type
GJ573	24000445	Chip Jumper, 1680 Type
GJ599	24000445	Chip Jumper, 1680 Type
GR01	24000445	Chip Jumper, 1680 Type
GR02	24000445	Chip Jumper, 1680 Type
GR09	24000445	Chip Jumper, 1680 Type
GR90	24011564	Chip, 560k ohm, 1/20W
GR392	24000445	Chip Jumper, 1680 Type
GR503	24000445	Chip Jumper, 1680 Type
GR505	24000445	Chip Jumper, 1680 Type
GS501	24000445	Chip Jumper, 1680 Type
GS502	24000445	Chip Jumper, 1680 Type
⚠H001	23321470	Tuner, ELA52LX4
H002	23148042	Module, IF, US WOW MSP3440G, MVUS51
H003	23124087	Antenna Switch, RSU135X1
⚠HY01	23321470	Tuner, ELA52LX4
⚠K912	23306497	Remote Hand Unit, CT-90159
L001	23103840	Ferrite Core, TFE1013
L002	23103840	Ferrite Core, TFE1013
L101	23289845	Coil, Peaking, TRF4680AT
L103	23289844	Coil, Peaking, TRF4470AT
L111	23289845	Coil, Peaking, TRF4680AT
L113	23289842	Coil, Peaking, TRF4220AT
L115	23103159	Coil (Ferrite Bead), TEM2028AA
L201	23103152	Chip (Ferrite Bead), TEM2133AM
L202	23103152	Chip (Ferrite Bead), TEM2133AM
L203	23103152	Chip (Ferrite Bead), TEM2133AM
L204	23103152	Chip (Ferrite Bead), TEM2133AM
L205	23103152	Chip (Ferrite Bead), TEM2133AM
L206	23103152	Chip (Ferrite Bead), TEM2133AM

Location No.	Part No.	Description
L207	23103152	Chip (Ferrite Bead), TEM2133AM
L208	23103152	Chip (Ferrite Bead), TEM2133AM
L209	23103152	Chip (Ferrite Bead), TEM2133AM
L210	23103152	Chip (Ferrite Bead), TEM2133AM
L211	23246191	Chip, Inductor, TRF4R47CG
L212	23246191	Chip, Inductor, TRF4R47CG
L213	23246190	Chip, Inductor, TRF4R39CG
L214	23246191	Chip, Inductor, TRF4R47CG
L215	23246191	Chip, Inductor, TRF4R47CG
L216	23246190	Chip, Inductor, TRF4R39CG
L217	23246191	Chip, Inductor, TRF4R47CG
L218	23246191	Chip, Inductor, TRF4R47CG
L219	23246190	Chip, Inductor, TRF4R39CG
L220	23246191	Chip, Inductor, TRF4R47CG
L221	23246191	Chip, Inductor, TRF4R47CG
L222	23246191	Chip, Inductor, TRF4R47CG
L302	23289846	Coil, Peaking, TRF4101AT
⚠L441	23233058	Coil, Width, TLN2224AG
L450	23248305	Coil, Choke, TLN3346GH
⚠L461	23248360	Coil, Choke, TLN3541AH
L465	23289840	Coil, Peaking, TRF4100AT
L491	23248191	Coil, Choke, TLN3351AD
L501	23289844	Coil, Peaking, TRF4470AT
L503	23280022	Coil, Peaking, TRF4101AZ
L504	23103827	Chip (Ferrite Bead), TEM2120M
L550	23103146	Coil (Ferrite Bead), TEM2030AA
L551	23103159	Coil (Ferrite Bead), TEM2028AA
L582	23248288	Coil, Choke, TLN3299GH
L801	23103152	Chip (Ferrite Bead), TEM2133AM
L802	23103152	Chip (Ferrite Bead), TEM2133AM
L833	23248321	Coil, Choke, TLN3462AH
L834	23280019	Coil, Peaking, TRF4330AZ
L835	23248248	Coil, Choke, TLN3500AH
L837	23248292	Coil, Choke, TLN3499GH
L838	23248292	Coil, Choke, TLN3499GH
L839	23248320	Coil, Choke, TLN3441AH
L840	23280019	Coil, Peaking, TRF4330AZ
L861	23103145	Coil (Ferrite Bead), TEM2011AA
L862	23103145	Coil (Ferrite Bead), TEM2011AA
L883	23103145	Coil (Ferrite Bead), TEM2011AA
L884	23103145	Coil (Ferrite Bead), TEM2011AA
L886	23103145	Coil (Ferrite Bead), TEM2011AA
L887	23103145	Coil (Ferrite Bead), TEM2011AA
L888	23248292	Coil, Choke, TLN3499GH
L889	23248292	Coil, Choke, TLN3499GH
L891	23103145	Coil (Ferrite Bead), TEM2011AA
L892	23103145	Coil (Ferrite Bead), TEM2011AA
L895	23103145	Coil (Ferrite Bead), TEM2011AA
L896	23103145	Coil (Ferrite Bead), TEM2011AA
⚠L901	23200559	Coil, Degaussing, TSB-2412AH (32HF73)
LA37	23289836	Coil, Peaking, TRF42R2AT
LA38	23289836	Coil, Peaking, TRF42R2AT
LA39	23289836	Coil, Peaking, TRF42R2AT
LC01	23103152	Chip (Ferrite Bead), TEM2133AM
LI01	23246051	Chip, Inductor, TRF4R22CE
LI02	23246196	Chip, Inductor, TRF41R2CG
LI51	23289470	Coil, Peaking, TRF4470AF

Location No.	Part No.	Description
LI52	23289120	Coil, Peaking, TRF4120A
LI53	23289180	Coil, Peaking, TRF4180AF
LI54	23232050	Coil, Variable, TRF3554D
LI55	23289129	Coil, Peaking, TRF41R2AF
LI56	23289180	Coil, Peaking, TRF4180AF
LI57	23289228	Coil, Peaking, TRF4R22AF
⚠LJ901	23200544	Coil, Geomagnetic Correctioon, TSB-2421AH
LV02	23103159	Coil (Ferrite Bead), TEM2028AA
LV03	23103159	Coil (Ferrite Bead), TEM2028AA
LV09	23289840	Coil, Peaking, TRF4100AT
LV13	23289840	Coil, Peaking, TRF4100AT
LV42	23289840	Coil, Peaking, TRF4100AT
LV200	23103159	Coil (Ferrite Bead), TEM2028AA
LV210	23103159	Coil (Ferrite Bead), TEM2028AA
LV230	23103159	Coil (Ferrite Bead), TEM2028AA
LV231	23103159	Coil (Ferrite Bead), TEM2028AA
LV240	23103159	Coil (Ferrite Bead), TEM2028AA
LV250	23103146	Coil (Ferrite Bead), TEM2030AA
LV260	23103159	Coil (Ferrite Bead), TEM2028AA
LV261	23103159	Coil (Ferrite Bead), TEM2028AA
LV262	23103159	Coil (Ferrite Bead), TEM2028AA
LV270	23103146	Coil (Ferrite Bead), TEM2030AA
LV271	23289840	Coil, Peaking, TRF4100AT
LY100	23246223	Chip, Inductor, TRF4330C
LY101	23103827	Chip (Ferrite Bead), TEM2120M
LY102	23103827	Chip (Ferrite Bead), TEM2120M
LY103	23103230	Coil (Ferrite Bead), TEM2134AD
LY104	23246219	Chip, Inductor, TRF4150C
LY105	23246219	Chip, Inductor, TRF4150C
LY112	23103230	Coil (Ferrite Bead), TEM2134AD
LY113	23246398	Chip, Inductor, TRF4100CV
LY290	23103159	Coil (Ferrite Bead), TEM2028AA
LY291	23103159	Coil (Ferrite Bead), TEM2028AA
LY292	23103159	Coil (Ferrite Bead), TEM2028AA
LY501	23246398	Chip, Inductor, TRF4100CV
⚠P801	23372233	Power Cord
Q151	23314289	Transistor, 2SA1586-Y
Q152	23314292	Transistor, 2SC4116-Y
Q172	23314292	Transistor, 2SC4116-Y
Q201	23009234	IC, TFP501
Q201	23314993	Transistor, 2SC4081 Q
Q202	23009233	IC, THS8200
Q203	23009621	IC, P87C809M
Q204	23009371	IC, EPM3032ATC4410
Q205	23205197	Transistor, BSH111
Q206	23205197	Transistor, BSH111
Q207	23314163	Transistor, 2SA1162-Y
Q208	23314163	Transistor, 2SA1162-Y
Q209	23314163	Transistor, 2SA1162-Y
Q210	23314204	Transistor, 2SC2412K,Q
Q211	23205197	Transistor, BSH111
Q212	70114402	Transistor, 2SC3437-Y
Q213	23314204	Transistor, 2SC2412K,Q
Q302	23000711	IC, TA1317AN
Q360	23314993	Transistor, 2SC4081 Q
Q370	23114497	Transistor, RN1406
Q371	23314204	Transistor, 2SC2412K,Q
Q372	23114497	Transistor, RN1406
Q373	23314204	Transistor, 2SC2412K,Q
Q374	23314204	Transistor, 2SC2412K,Q
Q390	23906596	IC, BA4558
Q391	23314204	Transistor, 2SC2412K,Q
Q399	23205079	Transistor, 2SC4686A
Q402	23314862	Transistor, FET, 2SK941

Location No.	Part No.	Description
Q410	23314994	Transistor, 2SA1576A106
Q425	23314993	Transistor, 2SC4081 Q
Q426	23205177	Transistor, RN1306(TE85L)
Q427	23205177	Transistor, RN1306(TE85L)
Q428	23205177	Transistor, RN1306(TE85L)
Q430	23314141	Transistor, 2SC3852
Q460	23205031	Transistor, FET, 2SK2920
Q480	23314993	Transistor, 2SC4081 Q
Q484	23205045	Transistor, 2SA1037AKQ
Q486	23314204	Transistor, 2SC2412K,Q
Q510	23009369	IC, TA1360AFG
Q520	23314994	Transistor, 2SA1576A106
Q521	23314994	Transistor, 2SA1576A106
Q522	23314994	Transistor, 2SA1576A106
Q611	23314183	Transistor, 2SC4213-B
Q612	23314994	Transistor, 2SA1576A106
Q683	23314993	Transistor, 2SC4081 Q
Q801	23009236	IC, TPS76918
Q829	23000804	IC, SI-3090J(LF1101)
Q832	70200563	IC, PST9129
Q834	23000805	IC, SI-3033CA(LF1101)
Q839	23000805	IC, SI-3033CA(LF1101)
Q840	23906133	IC, MIP280
⚠Q841	23000823	IC, PHOTO COUPLER, TLP421F(GR)
⚠Q842	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q843	23314965	Transistor, KTC3198 Y
Q2107	23314962	Transistor, KTA1266 Y
Q2108	23314962	Transistor, KTA1266 Y
Q2109	23314962	Transistor, KTA1266 Y
Q2201	23114460	Transistor, RN1204
Q2202	23114460	Transistor, RN1204
Q3103	23314994	Transistor, 2SA1576A106
Q3301	23906164	IC, TA75S393F(TE
Q3302	23205014	Transistor, 2SC4667-O
Q4021	23114433	Transistor, 2SC1815-Y
Q4022	23114425	Transistor, 2SA1015-Y(TE
Q4460	23314993	Transistor, 2SC4081 Q
Q4461	23314993	Transistor, 2SC4081 Q
Q4501	23906335	IC, TA1270AF(J)
Q4690	23314204	Transistor, 2SC2412K,Q
Q4703	23314994	Transistor, 2SA1576A106
QA01	23009507	IC, MN102H85KFL
QA02	23009330	IC, AT24C64-10PI-2.7
QA71	23314993	Transistor, 2SC4081 Q
QA72	23314993	Transistor, 2SC4081 Q
QB05	23314993	Transistor, 2SC4081 Q
QB14	23314993	Transistor, 2SC4081 Q
QB15	23314993	Transistor, 2SC4081 Q
QB44	23314994	Transistor, 2SA1576A106
QB45	23314993	Transistor, 2SC4081 Q
QB55	23314993	Transistor, 2SC4081 Q
QB61	70114402	Transistor, 2SC3437-Y
QB81	70114396	Transistor, 2SC3326B
QB82	70114396	Transistor, 2SC3326B
QB83	23314994	Transistor, 2SA1576A106
QB84	23314993	Transistor, 2SC4081 Q
QB85	23314994	Transistor, 2SA1576A106
QB86	23314994	Transistor, 2SA1576A106
QB87	23314994	Transistor, 2SA1576A106
QB88	23314994	Transistor, 2SA1576A106
QC01	23009360	IC, AT24C04N10SI
QC02	23205197	Transistor, BSH111
QC03	23205197	Transistor, BSH111

Location No.	Part No.	Description
QC04	23009360	IC, AT24C04N10SI
QC05	23314204	Transistor, 2SC2412K,Q
QI01	23114611	Transistor, 2SC3357
QI02	23314994	Transistor, 2SA1576A106
QI03	23314993	Transistor, 2SC4081 Q
QI05	23009240	IC, TA1274F(FA03A5,EL)
QJ01	23906077	IC, TCA0372 DP1
QS03	23314993	Transistor, 2SC4081 Q
QS04	23314993	Transistor, 2SC4081 Q
QS05	23318977	IC, MC14052BF
QS06	23318977	IC, MC14052BF
QS07	23314183	Transistor, 2SC4213-B
QS08	23314183	Transistor, 2SC4213-B
QS09	23114493	Transistor, RN2404
QS10	23904896	IC, JLC1562BF
QS11	23114499	Transistor, RN1404
QS12	23114499	Transistor, RN1404
QS13	23114499	Transistor, RN1404
QS14	23114499	Transistor, RN1404
QS101	23906597	IC, BA4558F
QV01	23906887	IC, CXA2069Q
QV04	23314993	Transistor, 2SC4081 Q
QV06	23314994	Transistor, 2SA1576A106
QV09	23314994	Transistor, 2SA1576A106
QV12	23009418	IC,MM1505XNRE
QV70	23314993	Transistor, 2SC4081 Q
QV71	23314993	Transistor, 2SC4081 Q
QV72	23314994	Transistor, 2SA1576A106
QV73	23314994	Transistor, 2SA1576A106
QV74	23314993	Transistor, 2SC4081 Q
QV254	23000360	IC, MM1519XQ
QY100	23906515	IC, TC90A45F
QY101	23314993	Transistor, 2SC4081 Q
QY102	23314993	Transistor, 2SC4081 Q
QY103	23314994	Transistor, 2SA1576A106
QY501	23000812	IC, TA1340F
QY502	23205014	Transistor, 2SC4667-O
QY503	23314994	Transistor, 2SA1576A106
QY504	23314994	Transistor, 2SA1576A106
QY507	23314993	Transistor, 2SC4081 Q
QY511	23314994	Transistor, 2SA1576A106
QY512	23314994	Transistor, 2SA1576A106
QY513	23314994	Transistor, 2SA1576A106
QY514	23314994	Transistor, 2SA1576A106
QY515	23314994	Transistor, 2SA1576A106
QY516	23314994	Transistor, 2SA1576A106
QY518	23314993	Transistor, 2SC4081 Q
QY520	23314993	Transistor, 2SC4081 Q
R101	24553223	OMF, 22k ohm, 1W
R201	24011102	Chip, 1k ohm, 1/20W
R202	24872102	Chip, 1k ohm, 1/16W
R203	24872102	Chip, 1k ohm, 1/16W
R204	24011102	Chip, 1k ohm, 1/20W
R205	24011152	Chip, 1500 ohm, 1/20W
R207	24011102	Chip, 1k ohm, 1/20W
R208	24011332	Chip, 3300 ohm, 1/20W
R209	24011332	Chip, 3300 ohm, 1/20W
R210	24011101	Chip, 100 ohm, 1/20W
R211	24011101	Chip, 100 ohm, 1/20W
R212	24011101	Chip, 100 ohm, 1/20W
R213	24011101	Chip, 100 ohm, 1/20W
R214	24011101	Chip, 100 ohm, 1/20W
R215	24011101	Chip, 100 ohm, 1/20W
R216	24011102	Chip, 1k ohm, 1/20W
R217	24011330	Chip, 33 ohm, 1/20W

Location No.	Part No.	Description
R218	24011330	Chip, 33 ohm, 1/20W
R218	24366333	CF, 33k ohm
R219	24011330	Chip, 33 ohm, 1/20W
R220	24011330	Chip, 33 ohm, 1/20W
R221	24011330	Chip, 33 ohm, 1/20W
R222	24011330	Chip, 33 ohm, 1/20W
R223	24011302	Chip, 3k ohm, 1/20W
R224	24872750	Chip, 75 ohm, 1/16W
R225	24872750	Chip, 75 ohm, 1/16W
R226	24872750	Chip, 75 ohm, 1/16W
R227	24366273	CF, 27k ohm
R227	24872750	Chip, 75 ohm, 1/16W
R228	24366682	CF, 6800 ohm (32HF73)
R228	24366562	CF, 5600 ohm (36HF73)
R228	24872750	Chip, 75 ohm, 1/16W
R229	24872750	Chip, 75 ohm, 1/16W
R230	24011103	Chip, 10k ohm, 1/20W
R231	24011153	Chip, 15k ohm, 1/20W
R232	24011222	Chip, 2200 ohm, 1/20W
R233	24011472	Chip, 4700 ohm, 1/20W
R234	24019436	Chip, 22 ohm, 1/16W
R235	24019436	Chip, 22 ohm, 1/16W
R236	24019436	Chip, 22 ohm, 1/16W
R237	24019436	Chip, 22 ohm, 1/16W
R238	24019436	Chip, 22 ohm, 1/16W
R239	24019436	Chip, 22 ohm, 1/16W
R240	24011101	Chip, 100 ohm, 1/20W
R241	24011102	Chip, 1k ohm, 1/20W
R242	24011101	Chip, 100 ohm, 1/20W
R243	24011102	Chip, 1k ohm, 1/20W
R244	24011101	Chip, 100 ohm, 1/20W
R246	24011101	Chip, 100 ohm, 1/20W
R247	24011101	Chip, 100 ohm, 1/20W
R248	24011101	Chip, 100 ohm, 1/20W
R249	24011101	Chip, 100 ohm, 1/20W
R250	24011101	Chip, 100 ohm, 1/20W
R251	24011101	Chip, 100 ohm, 1/20W
R252	24011101	Chip, 100 ohm, 1/20W
R253	24011473	Chip, 47k ohm, 1/20W
R254	24011472	Chip, 4700 ohm, 1/20W
R255	24011101	Chip, 100 ohm, 1/20W
R256	24011103	Chip, 10k ohm, 1/20W
R257	24011103	Chip, 10k ohm, 1/20W
R258	24011101	Chip, 100 ohm, 1/20W
R259	24011101	Chip, 100 ohm, 1/20W
R264	24011750	Chip, 75 ohm, 1/20W
R265	24011750	Chip, 75 ohm, 1/20W
R266	24011750	Chip, 75 ohm, 1/20W
R286	24011750	Chip, 75 ohm, 1/20W
R287	24011750	Chip, 75 ohm, 1/20W
R288	24011750	Chip, 75 ohm, 1/20W
R305	24322688	MF, 0.68 ohm, 1W
R309	24383151	OMF, 150 ohm, 2W
R315	24011274	Chip, 270k ohm, 1/20W
R316	24011823	Chip, 82k ohm, 1/20W
R318	24011101	Chip, 100 ohm, 1/20W
R319	24011101	Chip, 100 ohm, 1/20W
R320	24011101	Chip, 100 ohm, 1/20W
R321	24011224	Chip, 220k ohm, 1/20W
R322	24011274	Chip, 270k ohm, 1/20W
R234	24011184	Chip, 180k ohm, 1/20W
R235	24366104	CF, 100k ohm
⚠R327	24338159	MF, 1.5 ohm, 1W
⚠R328	24338159	MF, 1.5 ohm, 1W
R329	24011223	Chip, 22k ohm, 1/20W

Location No.	Part No.	Description
R331	24872823	Chip, 82k ohm, 1/16W
R333	24552103	OMF, 10k ohm, 1/2W
R334	24552103	OMF, 10k ohm, 1/2W
R338	24366103	CF, 10k ohm
R353	24366152	CF, 1500 ohm
R360	24011223	Chip, 22k ohm, 1/20W
R361	24011223	Chip, 22k ohm, 1/20W
R362	24011223	Chip, 22k ohm, 1/20W
R363	24011472	Chip, 4700 ohm, 1/20W
R365	24011331	Chip, 330 ohm, 1/20W
R366	24011911	Chip, 910 ohm, 1/20W
R367	24011242	Chip, 2400 ohm, 1/20W
R370	24872103	Chip, 10k ohm, 1/16W
R371	24011103	Chip, 10k ohm, 1/20W
R372	24011103	Chip, 10k ohm, 1/20W
R373	24011102	Chip, 1k ohm, 1/20W
R374	24011102	Chip, 1k ohm, 1/20W
R376	24011471	Chip, 470 ohm, 1/20W
R377	24366220	CF, 22 ohm
R379	24382103	OMF, 10k ohm, 1W
R391	24000445	Chip Jumper, 1680 Type
R393	24011103	Chip, 10k ohm, 1/20W
R394	24872103	Chip, 10k ohm, 1/16W
R395	24011103	Chip, 10k ohm, 1/20W
R396	24011103	Chip, 10k ohm, 1/20W
R397	24011103	Chip, 10k ohm, 1/20W
R398	24011153	Chip, 15k ohm, 1/20W
R401	24011361	Chip, 360 ohm, 1/20W
R402	24011103	Chip, 10k ohm, 1/20W
R403	24011272	Chip, 2700 ohm, 1/20W
R409	24011102	Chip, 1k ohm, 1/20W
R411	24366101	CF, 100 ohm
R413	24011182	Chip, 1800 ohm, 1/20W
R424	24011272	Chip, 2700 ohm, 1/20W
R426	24366222	CF, 2200 ohm
R429	24553100	OMF, 10 ohm, 1W
R431	24546159	FR, 1.5 ohm, 1/2W
R432	24552151	OMF, 150 ohm, 1/2W
R441	24383331	OMF, 330 ohm, 2W
R460	24366103	CF, 10k ohm
R461	24366122	CF, 1200 ohm
R462	24366562	CF, 5600 ohm
R463	24366473	CF, 47k ohm
R464	24366221	CF, 220 ohm
⚠R465	24011821	Chip, 820 ohm, 1/20W
R466	24383220	OMF, 22 ohm, 2W
R467	24383220	OMF, 22 ohm, 2W
⚠R468	24000634	MF, 11k ohm, ±1%, 1/4W
R469	24366823	CF, 82k ohm
R470	24339518	MF, 0.51 ohm, 2W
R471	24381271	OMF, 270 ohm, 1/2W
R472	24381270	OMF, 27 ohm, 1/2W
R473	24000247	MF, 39k ohm, 1/4W
R474	24872472	Chip, 4700 ohm, 1/16W
R475	24872912	Chip, 9100 ohm, 1/16W
⚠R478	24338109	MF, 1 ohm, 1W
R481	24011103	Chip, 10k ohm, 1/20W
R482	24011182	Chip, 1800 ohm, 1/20W
R489	24011563	Chip, 56k ohm, 1/20W
R502	24000445	Chip Jumper, 1680 Type
R515	24871103	Chip, 10k ohm, 1/8W
R520	24011101	Chip, 100 ohm, 1/20W
R521	24011101	Chip, 100 ohm, 1/20W
R526	24000445	Chip Jumper, 1680 Type
R547	24011680	Chip, 68 ohm, 1/20W

Location No.	Part No.	Description
R560	24011102	Chip, 1k ohm, 1/20W
R561	24552181	OMF, 180 ohm, 1/2W
R563	24011472	Chip, 4700 ohm, 1/20W
R564	24011101	Chip, 100 ohm, 1/20W
R569	24011224	Chip, 220k ohm, 1/20W
R570	24011103	Chip, 10k ohm, 1/20W
R612	24011103	Chip, 10k ohm, 1/20W
R661	24011472	Chip, 4700 ohm, 1/20W
R662	24011472	Chip, 4700 ohm, 1/20W
R663	24011122	Chip, 1200 ohm, 1/20W
R664	24011122	Chip, 1200 ohm, 1/20W
R832	24011473	Chip, 47k ohm, 1/20W
R836	24011151	Chip, 150 ohm, 1/20W
R837	24011220	Chip, 22 ohm, 1/20W
R838	24011152	Chip, 1500 ohm, 1/20W
R840	24552562	OMF, 5600 ohm, 1/2W
R841	24366102	CF, 1k ohm
R842	24376563	CF, 56k ohm, 1/2W
R843	24376563	CF, 56k ohm, 1/2W
R844	24323568	MF, 0.56 ohm, 2W
R844	24366103	CF, 10k ohm
R845	24011182	Chip, 1800 ohm, 1/20W
R846	24011560	Chip, 56 ohm, 1/20W
R847	24000445	Chip Jumper, 1680 Type
R848	24011680	Chip, 68 ohm, 1/20W
R849	24011152	Chip, 1500 ohm, 1/20W
R865	24552121	OMF, 120 ohm, 1/2W
R867	24366223	CF, 22k ohm
R870	24381221	OMF, 220 ohm, 1/2W
R871	24553470	OMF, 47 ohm, 1W
R883	24553393	OMF, 39k ohm, 1W
R920	24000884	FR, 3.0 ohm, 1W
R933	24545150	FR, 15 ohm, 1/4W
R934	24366471	CF, 470 ohm
R2040	24011101	Chip, 100 ohm, 1/20W
R2104	24011332	Chip, 3300 ohm, 1/20W
R2111	24011470	Chip, 47 ohm, 1/20W
R2112	24011470	Chip, 47 ohm, 1/20W
R2113	24011470	Chip, 47 ohm, 1/20W
R2155	24871102	Chip, 1k ohm, 1/8W
R2156	24871102	Chip, 1k ohm, 1/8W
R2157	24871102	Chip, 1k ohm, 1/8W
R2158	24011103	Chip, 10k ohm, 1/20W
R2159	24011103	Chip, 10k ohm, 1/20W
R2160	24011103	Chip, 10k ohm, 1/20W
R2161	24871472	Chip, 4700 ohm, 1/8W
R2162	24871562	Chip, 5600 ohm, 1/8W
R2163	24011100	Chip, 10 ohm, 1/20W
R2164	24011100	Chip, 10 ohm, 1/20W
R2165	24011100	Chip, 10 ohm, 1/20W
R2166	24011100	Chip, 10 ohm, 1/20W
R2167	24011100	Chip, 10 ohm, 1/20W
R2168	24011100	Chip, 10 ohm, 1/20W
R2201	24366563	CF, 56k ohm
R2202	24366563	CF, 56k ohm
R3140	24011101	Chip, 100 ohm, 1/20W
R3150	24011474	Chip, 470k ohm, 1/20W
R3301	24011222	Chip, 2200 ohm, 1/20W
R3302	24011103	Chip, 10k ohm, 1/20W
R3303	24011472	Chip, 4700 ohm, 1/20W
R3304	24011472	Chip, 4700 ohm, 1/20W
R3305	24011103	Chip, 10k ohm, 1/20W
R3306	24011562	Chip, 5600 ohm, 1/20W
R3307	24011103	Chip, 10k ohm, 1/20W
R3308	24011103	Chip, 10k ohm, 1/20W

Location No.	Part No.	Description
R3502	24000445	Chip Jumper, 1680 Type
R3920	24011101	Chip, 100 ohm, 1/20W
R4111	24019259	FR, 27ohm, 1/4W
R4310	24011183	Chip, 18k ohm, 1/20W
R4401	24011302	Chip, 3k ohm, 1/20W
R4403	24011471	Chip, 470 ohm, 1/20W
R4405	24011102	Chip, 1k ohm, 1/20W
R4406	24011103	Chip, 10k ohm, 1/20W
R4413	24011561	Chip, 560 ohm, 1/20W
R4425	24011472	Chip, 4700 ohm, 1/20W
R4461	24011102	Chip, 1k ohm, 1/20W
R4471	24011223	Chip, 22k ohm, 1/20W
R4472	24011223	Chip, 22k ohm, 1/20W
R4500	24321229	MF, 2.2 ohm, 1/2W
R4501	24383820	OMF, 82 ohm, 2W
R4504	24383820	OMF, 82 ohm, 2W
R4560	24011102	Chip, 1k ohm, 1/20W
R4562	24011103	Chip, 10k ohm, 1/20W
R4563	24011682	Chip, 6800 ohm, 1/20W
R4620	24011333	Chip, 33k ohm, 1/20W
R4630	24872183	Chip, 18k ohm, 1/16W
⚠R4670	24000524	MF, 4.3k ohm, 1/4W
R4690	24872103	Chip, 10k ohm, 1/16W
R4691	24872242	Chip, 2400 ohm, 1/16W
R4692	24872471	Chip, 470 ohm, 1/16W
R4693	24552331	OMF, 330 ohm, 1/2W
R4700	24011274	Chip, 270k ohm, 1/20W
R4701	24011274	Chip, 270k ohm, 1/20W
R4702	24011271	Chip, 270 ohm, 1/20W
R4703	24011473	Chip, 47k ohm, 1/20W
R4714	24011101	Chip, 100 ohm, 1/20W
R4715	24011222	Chip, 2200 ohm, 1/20W
R4716	24011222	Chip, 2200 ohm, 1/20W
R4717	24011332	Chip, 3300 ohm, 1/20W
R4799	24872103	Chip, 10k ohm, 1/16W
R4817	24366101	CF, 100 ohm
RA04	24011102	Chip, 1k ohm, 1/20W
RA05	24011102	Chip, 1k ohm, 1/20W
RA06	24011102	Chip, 1k ohm, 1/20W
RA07	24011102	Chip, 1k ohm, 1/20W
RA09	24011102	Chip, 1k ohm, 1/20W
RA10	24011102	Chip, 1k ohm, 1/20W
RA33	24011102	Chip, 1k ohm, 1/20W
RA53	24011102	Chip, 1k ohm, 1/20W
RA374	24000445	Chip Jumper, 1680 Type
RA384	24000445	Chip Jumper, 1680 Type
RA394	24000445	Chip Jumper, 1680 Type
RA401	24011561	Chip, 560 ohm, 1/20W
RB37	24011331	Chip, 330 ohm, 1/20W
RB38	24011105	Chip, 1M ohm, 1/20W
RB39	24011123	Chip, 12k ohm, 1/20W
RB40	24011392	Chip, 3900 ohm, 1/20W
RB41	24011392	Chip, 3900 ohm, 1/20W
RB42	24011103	Chip, 10k ohm, 1/20W
RB61	24011222	Chip, 2200 ohm, 1/20W
RB62	24011103	Chip, 10k ohm, 1/20W
RB64	24011332	Chip, 3300 ohm, 1/20W
RB65	24011392	Chip, 3900 ohm, 1/20W
RB81	24011122	Chip, 1200 ohm, 1/20W
RB82	24011123	Chip, 12k ohm, 1/20W
RB83	24011123	Chip, 12k ohm, 1/20W
RB84	24011562	Chip, 5600 ohm, 1/20W
RC01	24011101	Chip, 100 ohm, 1/20W
RC01	24011101	Chip, 100 ohm, 1/20W
RC02	24011101	Chip, 100 ohm, 1/20W

Location No.	Part No.	Description
RC02	24011101	Chip, 100 ohm, 1/20W
RC03	24011101	Chip, 100 ohm, 1/20W
RC03	24011473	Chip, 47k ohm, 1/20W
RC04	24011101	Chip, 100 ohm, 1/20W
RC05	24011101	Chip, 100 ohm, 1/20W
RC05	24011103	Chip, 10k ohm, 1/20W
RC06	24011101	Chip, 100 ohm, 1/20W
RC06	24011103	Chip, 10k ohm, 1/20W
RC07	24011101	Chip, 100 ohm, 1/20W
RC07	24011103	Chip, 10k ohm, 1/20W
RC08	24011101	Chip, 100 ohm, 1/20W
RC08	24011103	Chip, 10k ohm, 1/20W
RC09	24011102	Chip, 1k ohm, 1/20W
RC09	24011221	Chip, 220 ohm, 1/20W
RC10	24011221	Chip, 220 ohm, 1/20W
RC10	24872101	Chip, 100 ohm, 1/16W
RC11	24011222	Chip, 2200 ohm, 1/20W
RC12	24011102	Chip, 1k ohm, 1/20W
RC13	24011101	Chip, 100 ohm, 1/20W
RC14	24011101	Chip, 100 ohm, 1/20W
RI01	24011270	Chip, 27 ohm, 1/20W
RI02	24011512	Chip, 5100 ohm, 1/20W
RI03	24011102	Chip, 1k ohm, 1/20W
RI04	24011470	Chip, 47 ohm, 1/20W
RI05	24011361	Chip, 360 ohm, 1/20W
RI06	24011519	Chip, 5.1 ohm, 1/20W
RI07	24011360	Chip, 36 ohm, 1/20W
RI08	24011332	Chip, 3300 ohm, 1/20W
RI09	24011123	Chip, 12k ohm, 1/20W
RI11	24011113	Chip, 11k ohm, 1/20W
RI13	24011112	Chip, 1100 ohm, 1/20W
RI14	24011102	Chip, 1k ohm, 1/20W
RI15	24011182	Chip, 1800 ohm, 1/20W
RI16	24011122	Chip, 1200 ohm, 1/20W
RI17	24011101	Chip, 100 ohm, 1/20W
RI18	24011132	Chip, 1300 ohm, 1/20W
RI19	24011391	Chip, 390 ohm, 1/20W
RI20	24011821	Chip, 820 ohm, 1/20W
RI21	24011271	Chip, 270 ohm, 1/20W
RI22	24011475	Chip, 4.7M ohm, 1/20W
RI23	24011221	Chip, 220 ohm, 1/20W
RI27	24011103	Chip, 10k ohm, 1/20W
RI28	24011123	Chip, 12k ohm, 1/20W
RI30	24011102	Chip, 1k ohm, 1/20W
RI32	24366750	CF, 75 ohm
RI33	24011124	Chip, 120k ohm, 1/20W
RI35	24011563	Chip, 56k ohm, 1/20W
RI36	24011683	Chip, 68k ohm, 1/20W
RI51	24066046	VR, 20k ohm, 0.1W
RI52	24011101	Chip, 100 ohm, 1/20W
RJ01	24321109	MF, 1 ohm, 1/2W
RJ02	24321109	MF, 1 ohm, 1/2W
RJ06	24366244	CF, 240k ohm
RJ08	24366244	CF, 240k ohm
RJ09	24366333	CF, 33k ohm
RJ12	24366473	CF, 47k ohm
RJ13	24366472	CF, 4700 ohm
RJ14	24366472	CF, 4700 ohm
RJ15	24366133	CF, 13k ohm
RJ17	24366682	CF, 6800 ohm
RJ41	24000445	Chip Jumper, 1680 Type
RJ42	24000445	Chip Jumper, 1680 Type
RJ43	24000445	Chip Jumper, 1680 Type
RJ44	24000445	Chip Jumper, 1680 Type
RJ45	24000445	Chip Jumper, 1680 Type

Location No.	Part No.	Description
RJ46	24000445	Chip Jumper, 1680 Type
RJ47	24000445	Chip Jumper, 1680 Type
RS01	24011562	Chip, 5600 ohm, 1/20W
RS02	24011562	Chip, 5600 ohm, 1/20W
RS03	24011562	Chip, 5600 ohm, 1/20W
RS04	24011562	Chip, 5600 ohm, 1/20W
RS05	24011562	Chip, 5600 ohm, 1/20W
RS06	24011562	Chip, 5600 ohm, 1/20W
RS07	24011562	Chip, 5600 ohm, 1/20W
RS08	24011562	Chip, 5600 ohm, 1/20W
RS09	24011562	Chip, 5600 ohm, 1/20W
RS10	24011562	Chip, 5600 ohm, 1/20W
RS11	24011101	Chip, 100 ohm, 1/20W
RS12	24011101	Chip, 100 ohm, 1/20W
RS13	24011562	Chip, 5600 ohm, 1/20W
RS14	24011562	Chip, 5600 ohm, 1/20W
RS15	24011101	Chip, 100 ohm, 1/20W
RS16	24011101	Chip, 100 ohm, 1/20W
RS17	24011101	Chip, 100 ohm, 1/20W
RS18	24011101	Chip, 100 ohm, 1/20W
RS19	24011101	Chip, 100 ohm, 1/20W
RS20	24011101	Chip, 100 ohm, 1/20W
RS21	24011222	Chip, 2200 ohm, 1/20W
RS22	24011222	Chip, 2200 ohm, 1/20W
RS25	24011101	Chip, 100 ohm, 1/20W
RS26	24011101	Chip, 100 ohm, 1/20W
RS29	24011102	Chip, 1k ohm, 1/20W
RS30	24011102	Chip, 1k ohm, 1/20W
RS31	24011104	Chip, 100k ohm, 1/20W
RS33	24011223	Chip, 22k ohm, 1/20W
RS34	24011223	Chip, 22k ohm, 1/20W
RS37	24011473	Chip, 47k ohm, 1/20W
RS38	24011473	Chip, 47k ohm, 1/20W
RS39	24011473	Chip, 47k ohm, 1/20W
RS40	24011473	Chip, 47k ohm, 1/20W
RS41	24011473	Chip, 47k ohm, 1/20W
RS42	24011473	Chip, 47k ohm, 1/20W
RS45	24011103	Chip, 10k ohm, 1/20W
RS46	24011103	Chip, 10k ohm, 1/20W
RS47	24011473	Chip, 47k ohm, 1/20W
RS48	24011473	Chip, 47k ohm, 1/20W
RS49	24011473	Chip, 47k ohm, 1/20W
RS50	24011473	Chip, 47k ohm, 1/20W
RS51	24011272	Chip, 2700 ohm, 1/20W
RS52	24011104	Chip, 100k ohm, 1/20W
RS55	24011103	Chip, 10k ohm, 1/20W
RS56	24011104	Chip, 100k ohm, 1/20W
RS57	24011562	Chip, 5600 ohm, 1/20W
RS58	24011562	Chip, 5600 ohm, 1/20W
RS59	24011562	Chip, 5600 ohm, 1/20W
RS60	24011562	Chip, 5600 ohm, 1/20W
RS61	24011101	Chip, 100 ohm, 1/20W
RS62	24011101	Chip, 100 ohm, 1/20W
RS63	24011102	Chip, 1k ohm, 1/20W
RS64	24011393	Chip, 39k ohm, 1/20W
RS65	24011563	Chip, 56k ohm, 1/20W
RS66	24011393	Chip, 39k ohm, 1/20W
RS67	24011563	Chip, 56k ohm, 1/20W
RS101	24011103	Chip, 10k ohm, 1/20W
RS102	24011103	Chip, 10k ohm, 1/20W
RS109	24011333	Chip, 33k ohm, 1/20W
RS110	24011102	Chip, 1k ohm, 1/20W
RS113	24011333	Chip, 33k ohm, 1/20W
RS114	24011102	Chip, 1k ohm, 1/20W
RS126	24011472	Chip, 4700 ohm, 1/20W

Location No.	Part No.	Description
RV01	24011101	Chip, 100 ohm, 1/20W
RV06	24011101	Chip, 100 ohm, 1/20W
RV07	24011104	Chip, 100k ohm, 1/20W
RV08	24011101	Chip, 100 ohm, 1/20W
RV09	24011101	Chip, 100 ohm, 1/20W
RV10	24011101	Chip, 100 ohm, 1/20W
RV11	24011101	Chip, 100 ohm, 1/20W
RV12	24011101	Chip, 100 ohm, 1/20W
RV14	24011104	Chip, 100k ohm, 1/20W
RV15	24011101	Chip, 100 ohm, 1/20W
RV17	24011101	Chip, 100 ohm, 1/20W
RV19	24011101	Chip, 100 ohm, 1/20W
RV20	24011101	Chip, 100 ohm, 1/20W
RV21	24011101	Chip, 100 ohm, 1/20W
RV26	24011561	Chip, 560 ohm, 1/20W
RV27	24011101	Chip, 100 ohm, 1/20W
RV29	24552101	OMF, 100 ohm, 1/2W
RV30	24011101	Chip, 100 ohm, 1/20W
RV33	24011750	Chip, 75 ohm, 1/20W
RV34	24011750	Chip, 75 ohm, 1/20W
RV35	24011750	Chip, 75 ohm, 1/20W
RV36	24011750	Chip, 75 ohm, 1/20W
RV37	24011750	Chip, 75 ohm, 1/20W
RV40	24011750	Chip, 75 ohm, 1/20W
RV41	24011101	Chip, 100 ohm, 1/20W
RV60	24011222	Chip, 2200 ohm, 1/20W
RV61	24011101	Chip, 100 ohm, 1/20W
RV62	24011101	Chip, 100 ohm, 1/20W
RV66	24011750	Chip, 75 ohm, 1/20W
RV68	24011222	Chip, 2200 ohm, 1/20W
RV69	24011222	Chip, 2200 ohm, 1/20W
RV70	24011101	Chip, 100 ohm, 1/20W
RV71	24011222	Chip, 2200 ohm, 1/20W
RV72	24011222	Chip, 2200 ohm, 1/20W
RV73	24011222	Chip, 2200 ohm, 1/20W
RV74	24011222	Chip, 2200 ohm, 1/20W
RV75	24011222	Chip, 2200 ohm, 1/20W
RV76	24011272	Chip, 2700 ohm, 1/20W
RV77	24011101	Chip, 100 ohm, 1/20W
RV78	24011101	Chip, 100 ohm, 1/20W
RV79	24011272	Chip, 2700 ohm, 1/20W
RV82	24011562	Chip, 5600 ohm, 1/20W
RV323	24011101	Chip, 100 ohm, 1/20W
RV324	24011101	Chip, 100 ohm, 1/20W
RV325	24011101	Chip, 100 ohm, 1/20W
RV330	24011101	Chip, 100 ohm, 1/20W
RV331	24011101	Chip, 100 ohm, 1/20W
RV332	24011101	Chip, 100 ohm, 1/20W
RV337	24011101	Chip, 100 ohm, 1/20W
RV338	24011101	Chip, 100 ohm, 1/20W
RV346	24011101	Chip, 100 ohm, 1/20W
RV347	24011101	Chip, 100 ohm, 1/20W
RV348	24011101	Chip, 100 ohm, 1/20W
RV351	24011330	Chip, 33 ohm, 1/20W
RV352	24011330	Chip, 33 ohm, 1/20W
RV353	24011330	Chip, 33 ohm, 1/20W
RV354	24011330	Chip, 33 ohm, 1/20W
RV355	24011330	Chip, 33 ohm, 1/20W
RV356	24011330	Chip, 33 ohm, 1/20W
RV358	24011101	Chip, 100 ohm, 1/20W
RV359	24011472	Chip, 4700 ohm, 1/20W
RY101	24011101	Chip, 100 ohm, 1/20W
RY102	24011221	Chip, 220 ohm, 1/20W
RY103	24011102	Chip, 1k ohm, 1/20W
RY104	24011102	Chip, 1k ohm, 1/20W

Location No.	Part No.	Description
RY105	24011821	Chip, 820 ohm, 1/20W
RY106	24000445	Chip Jumper, 1680 Type
RY107	24011222	Chip, 2200 ohm, 1/20W
RY109	24011332	Chip, 3300 ohm, 1/20W
RY110	24011152	Chip, 1500 ohm, 1/20W
RY501	24011303	Chip, 30k ohm, 1/20W
RY502	24011103	Chip, 10k ohm, 1/20W
RY503	24011223	Chip, 22k ohm, 1/20W
RY504	24011103	Chip, 10k ohm, 1/20W
RY505	24011123	Chip, 12k ohm, 1/20W
RY507	24011472	Chip, 4700 ohm, 1/20W
RY508	24011222	Chip, 2200 ohm, 1/20W
RY509	24011472	Chip, 4700 ohm, 1/20W
RY510	24011152	Chip, 1500 ohm, 1/20W
RY511	24011222	Chip, 2200 ohm, 1/20W
RY512	24011222	Chip, 2200 ohm, 1/20W
RY513	24011152	Chip, 1500 ohm, 1/20W
RY516	24011472	Chip, 4700 ohm, 1/20W
RY517	24011472	Chip, 4700 ohm, 1/20W
RY518	24011472	Chip, 4700 ohm, 1/20W
RY519	24000445	Chip Jumper, 1680 Type
RY520	24011101	Chip, 100 ohm, 1/20W
RY521	24011101	Chip, 100 ohm, 1/20W
RY523	24011122	Chip, 1200 ohm, 1/20W
RY524	24011681	Chip, 680 ohm, 1/20W
RY525	24011222	Chip, 2200 ohm, 1/20W
RY526	24011222	Chip, 2200 ohm, 1/20W
RY527	24011222	Chip, 2200 ohm, 1/20W
RY528	24011222	Chip, 2200 ohm, 1/20W
RY529	24011102	Chip, 1k ohm, 1/20W
RY532	24011101	Chip, 100 ohm, 1/20W
RY533	24000445	Chip Jumper, 1680 Type
RY534	24000445	Chip Jumper, 1680 Type
RY541	24011682	Chip, 6800 ohm, 1/20W
RY542	24011392	Chip, 3900 ohm, 1/20W
RY543	24011152	Chip, 1500 ohm, 1/20W
RY545	24011101	Chip, 100 ohm, 1/20W
RY548	24011102	Chip, 1k ohm, 1/20W
RY550	24011332	Chip, 3300 ohm, 1/20W
RY551	24011182	Chip, 1800 ohm, 1/20W
RY552	24011152	Chip, 1500 ohm, 1/20W
RY560	24011332	Chip, 3300 ohm, 1/20W
RY561	24011471	Chip, 470 ohm, 1/20W
RY562	24011101	Chip, 100 ohm, 1/20W
RY573	24011472	Chip, 4700 ohm, 1/20W
RY575	24011103	Chip, 10k ohm, 1/20W
RY576	24011123	Chip, 12k ohm, 1/20W
S601	23344456	Switch, Slide, SK22F28G9A
T400	23224388	Transformer, Focus, TLN2221AL
⚠T461Z	23236823	Transformer, Flyback, TFB4211ZD
⚠T801	23211765	Line Filter, TRF3239AH
T840	23217431	Transformer, Converter, TPW3425AH
⚠T862	23217618	Transformer, Converter, TPW3526AS
✻U801	23788581	POWER/D Board, PD1164B (32HF73)
✻U801	23788566	POWER/D Board, PD1164A (36HF73)
✻U802	23788567	AC IN Board, PD1165A
✻U803	23788582	VERT Board, PD1172B (32HF73)
✻U803	23788573	VERT Board, PD1172A (36HF73)
✻U901	23788574	CRT-D/SVM Board, PD1173A
✻U902	23788575	SIGNAL Board, PD1174A

Location No.	Part No.	Description
✻UA01	23788576	CONT-1 Board, PD1175A
✻UA02	23788707	CONT-2 Board, PD1176B (32HF73)
✻UA02	23788577	CONT-2 Board, PD1176A (36HF73)
✻UV02	23788762	DVI Board, PD0647B
UZ01	23148052	Modul, SACN CONVERTER, G.HYPER, MVPU41
⚠V901	23312987	Picture Tube, A80AJZ90X31 (32HF73)
⚠V901	23324046	Picture Tube, A90AJZ90X31 (36HF73)
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
XV01	23153533	Ceramic Resonator, 8.00MHz, TCR1082AM
XY501	23153961	Crystal, 3.58MHz
XY502	23153721	Ceramic Resonator, 503kHz, TCR1023
Y101	23565962	Owner's Manual, English/ French, 32HF73/36HF73
ZI51	23303197	Filter, SAW, 45.75MHz, TSF1248P
ZI52	23303271	Filter, TCF1138AM
ZI53	23303289	Filter, TCF1141AM
ZI55	23303244	Filter, TCF1121AM

TOSHIBA CORPORATION
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TOSHIBA

FILE NO. 020-200206

SERVICE MANUAL

COLOR TELEVISION

N2PS Chassis

36HFX72, 36HF72

(TAC0230) *(TAC0231)*

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TABLE OF CONTENTS

CHAPTER 1 **GENERAL ADJUSTMENTS**

SAFETY INSTRUCTIONS 3
SET-UP ADJUSTMENT 4
SERVICE MODE 8
ELECTRICAL ADJUSTMENTS 11
CIRCUIT CHECKS 13

CHAPTER 2 **SPECIFIC INFORMATIONS**

SETTING & ADJUSTING DATA 14
LOCATION OF CONTROLS 15
PROGRAMMING CHANNEL MEMORY 17
CHASSIS AND CABINET REPLACEMENT PARTS LIST 18
PC BOARDS BOTTOM VIEW 33
TERMINAL VIEW OF TRANSISTORS 42
CIRCUIT BLOCK DIAGRAM 44
SPECIFICATIONS ..... END
APPENDIX:
CIRCUIT DIAGRAM

CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a 120V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B).
   (See SETTING & ADJUSTING DATA on page 14)

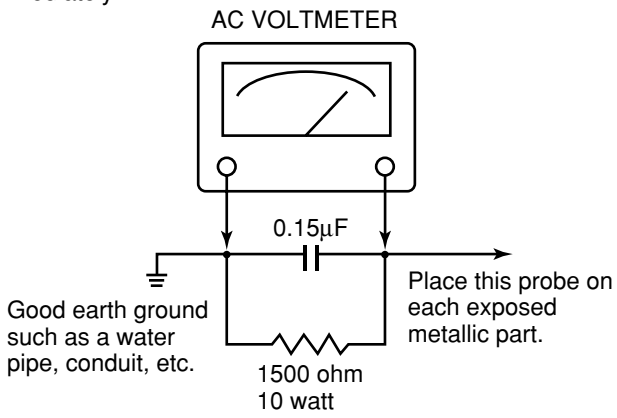
   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. This receiver is equipped with a Fail Safe (FS) circuit which prevents the receiver from producing an excessively high voltage even if the B+ voltage increases abnormally. Each time the receiver is serviced, the FS circuit must be checked to determine that the circuit is properly functioning, following the FS CIRCUIT CHECK procedure in this manual.
3. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
4. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation Transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
4. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner:

   Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μF, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 μF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts rms. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.


AC VOLTMETER
0.15μF
Good earth ground such as a water pipe, conduit, etc.
Place this probe on each exposed metallic part.
1500 ohm
10 watt

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

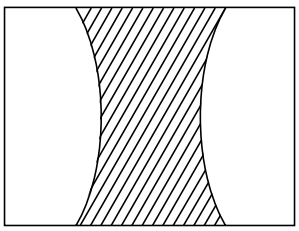
Note: 1. The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.
2. Mounting position of the purity magnet assembly should fit to same position as old one because slightly difference to the position depend on a kind of tube.

***** There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Evenly degauss the entire screen.
2. Set the CONTRAST and BRIGHTNESS Controls to the maximum.
3. Display built-in green raster using the TEST SIGNAL SELECTION function.
4. Loosen the clamp screw holding the deflection yoke (and remove the rubber Wedges).
5. Slide the yoke forward or backward to provide vertical green belt (zone) in the picture screen.
6. Rotate and spread the tabs of the purity magnet (See figure 4.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, center the raster vertically by adjusting the magnet as shown below.



Green Belt

7. Move the yoke slowly forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.
9. Put four wedges into the space between the picture tube and the yoke to hold the yoke in the adjusted position. (See figure 2.)
   Do not tilt the yoke by excessive insertion of the wedge.
10. Remove cover paper of wedge and stick wedges on the tube to fix the yoke in the adjusted position.
    Fix the wedges with glass cloth tapes.

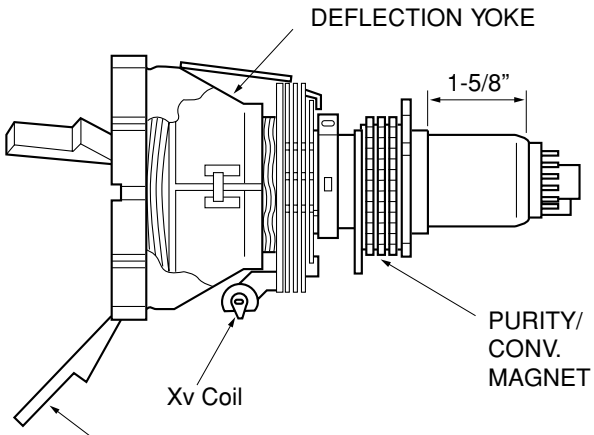


Figure 1.

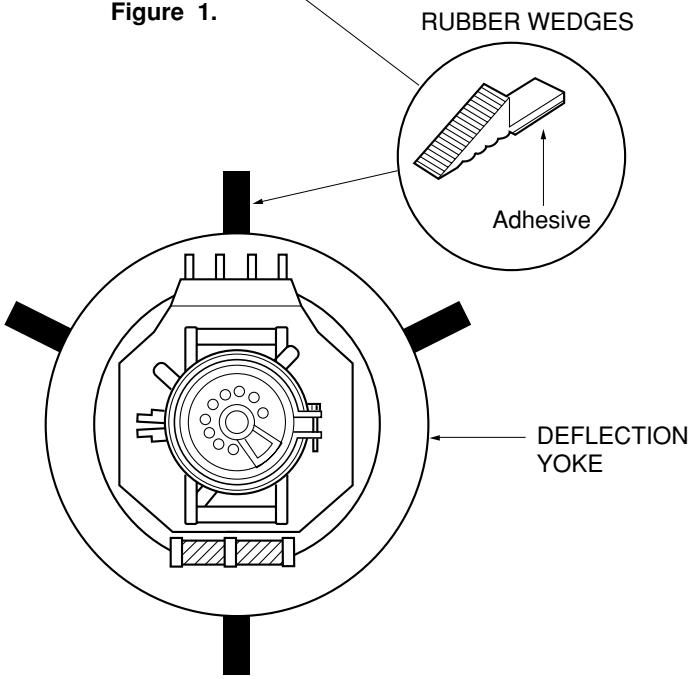


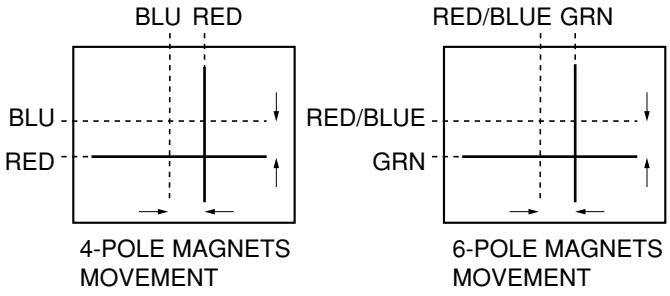
Figure 2.

CONVERGENCE ADJUSTMENTS

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ **CENTER CONVERGENCE ADJUSTMENT**

1. Display built-in cross-dot pattern using the TEST SIGNAL SELECTION function.
2. Adjust the BRIGHTNESS and CONTRAST Controls for well defined pattern.
3. Loosen the tightening ring and adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 4.) and superimpose red and blue vertical lines in the center area of the picture screen. (See figure 3.)
4. Turn the both tabs at the same time keeping the constant angle to superimpose red and blue horizontal lines at the centre of the screen. (See figure 3.)
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line with green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole magnets interact and make dot movement complex.
7. After completing the "CENTER CONVERGENCE ADJUSTMENT" tighten the tightening ring to fix the magnets.



Center Convergence by Convergence Magnets

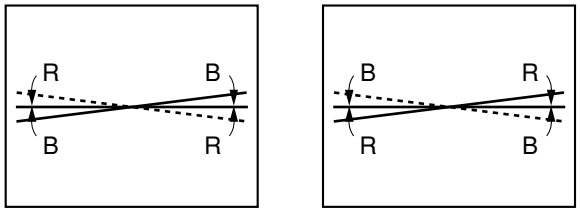
Figure 3.

■ **Xv COIL ADJUSTMENT**

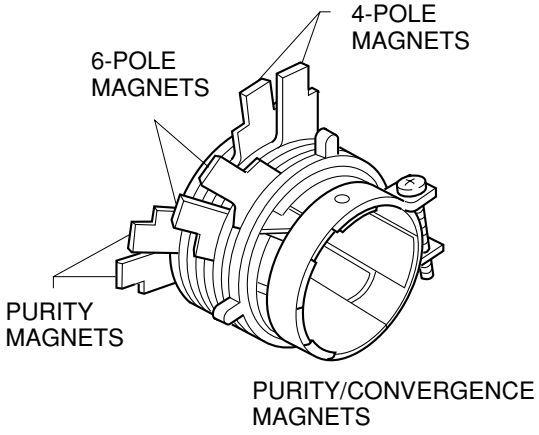
Adjust the Xv coil (on the deflection yoke) to correct misconvergence at both sides on screen.

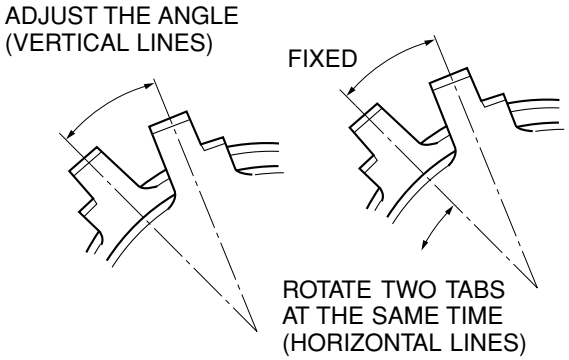
Use a hexagonal tip stick (plastic) to adjust the core of coil.

Clockwise Adjustment **Counterclockwise Adjustment**



X_V Cross Pattern View





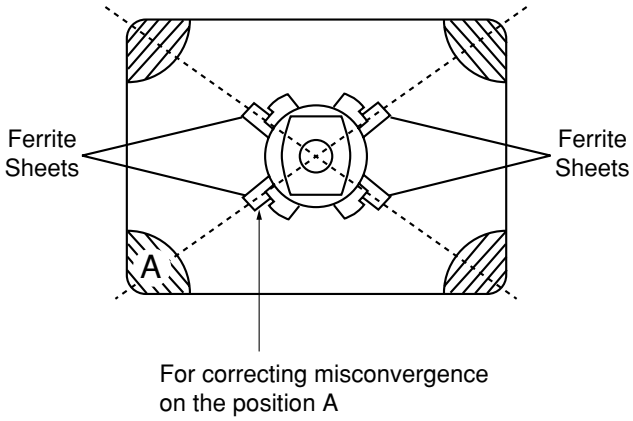
ADJUSTMENT OF MAGNETS

Figure 4.

■ **SCREEN-CORNER CONVERGENCE**

When the misconvergence is still evident on corners even though the above adjustment is done, use the ferrite sheet (Part No. 23993622) to correct misconvergence.

1. Put ferrite sheets into the space under the yoke. Decide such position that misconvergence becomes minimum, watching picture screen. (See figure below.)
2. Remove cover paper of ferrite sheet to stick it in the place on the tube. Put adhesive tapes on ferrite sheets to fix.



WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF SERVICE MANUAL.

(SET-UP ADJUSTMENT FOR FLAT TUBE)

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

COLOR PURITY ADUSTMENT

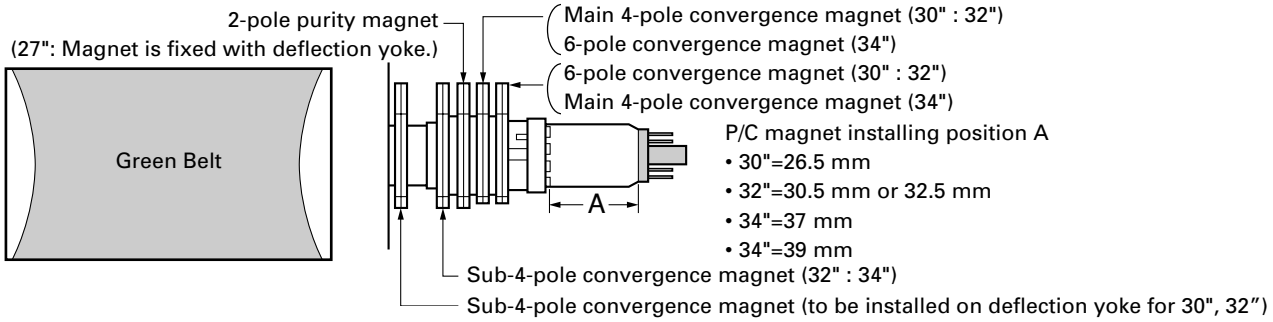
(1)Let the screen face in the installing direction or toward the east (when it is to be moved), bring up the service mode screen after demagnetizing (front, left, right, and top) with the degaussing coil, receive white signals by pressing the [TV/VIDEO] button, and then the receiver should be operated for more than 40 minutes.

(2)Perform rough adjustment of the central convergence with the P/C magnet according to the adjustment item.

(3)Receive built-in green signals, loosen set screws on the deflection yoke, remove rubber wedges, and shift the deflection yoke to toward front.

(4)Move alternately the two 2-pole magnets of the P/C magnets so that the green raster can come to the center of the screen.

Figure 1.

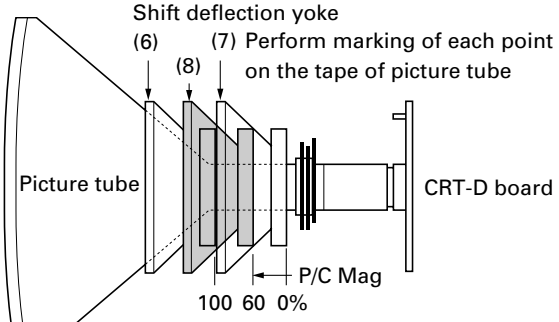

2-pole purity magnet
(27": Magnet is fixed with deflection yoke.)
Green Belt
Main 4-pole convergence magnet (30" : 32")
6-pole convergence magnet (34")
6-pole convergence magnet (30" : 32")
Main 4-pole convergence magnet (34")
A
P/C magnet installing position A
• 30"=26.5 mm
• 32"=30.5 mm or 32.5 mm
• 34"=37 mm
• 34"=39 mm
Sub-4-pole convergence magnet (32" : 34")
Sub-4-pole convergence magnet (to be installed on deflection yoke for 30", 32")

(5)Receive built-in red and blue signals, check that there is no inclination of the single color raster toward one side, and if each color tilts to a great extent, make adjustment with the 2-pole magnet so that the 3 colors will come to the center evenly.

(6)Receive the green raster, shift the deflection yoke from a foremost position (hitting against the picture tube) to a backward position horizontally, stop the deflection yoke at a position where it begins to become a green raster, and perform accurate marking on the picture tube.

(7)Shift the deflection yoke further backward, and perform accurate marking at a position where the green raster begins to being luck.

(8)Fix the deflection yoke at a position 60% forward within the range marked in items (6) and (7) above.



Fix the deflection yoke at a position 60% forward from a point between (6) and (7)

CONVERGENCE ADJUSTMENTS

* Adjust the convergence magnet to get vest convergence in the the order to (1) ~ (5).

■ CENTER CONVERGENCE:

(1)Receive the white crosshatch or dot pattern from the service signal generator.

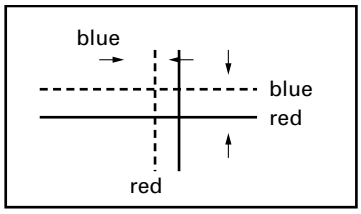
(2)Use the 2 pieces of main 4-pole magnets of P/C magnets, change the open angle, and align the red and blue vertical lines on the screen center.

(3)Freeze the open angle of the main 4-pole magnets, turn them simultaneously, and align the horizontal lines.

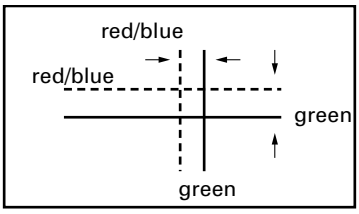
(4)Take the same steps for items (2) and (3) above and align red/blue with green on the screen center using two 6-pole magnets.

(5) Adjust the sub-4-pole magnets only in case there is any deviation of Xv bow-shaped convergence. (To be usually set at the initial position)

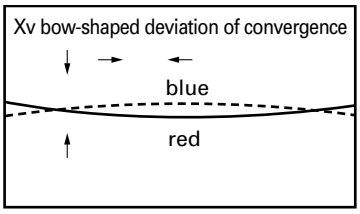
Align both sides with the sub-4-pole magnets and minimize the deviation of blue and red with the main 4-pole magnets.



Main 4-pole magnet



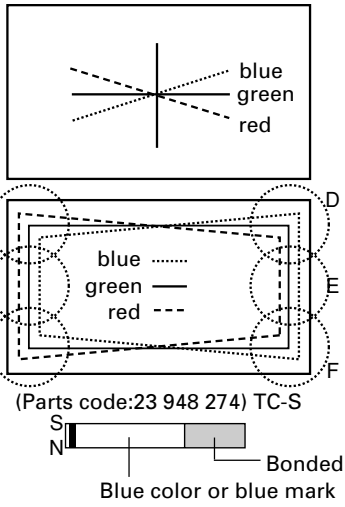
6-pole magnet

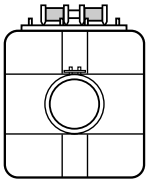


Sub-4-pole magnet

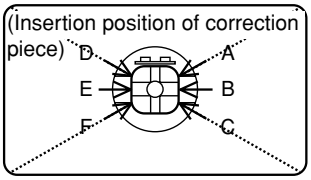
■ CIRCUMFERENCE CONVERGENCE:

* Perform correction in the following manner.

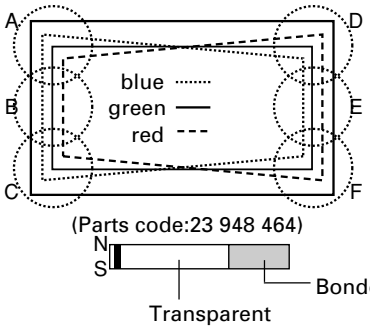




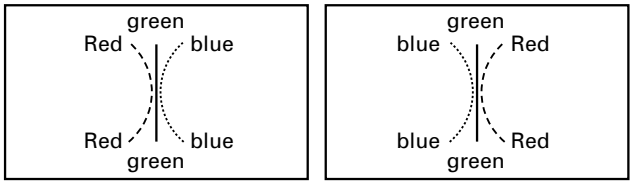
• Adjust coils and minimize deviation
(The 27" unit has coils underneath it)



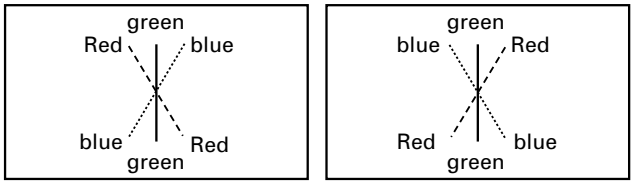
*Insert the correction piece between the picture tube and the deflection yoke.



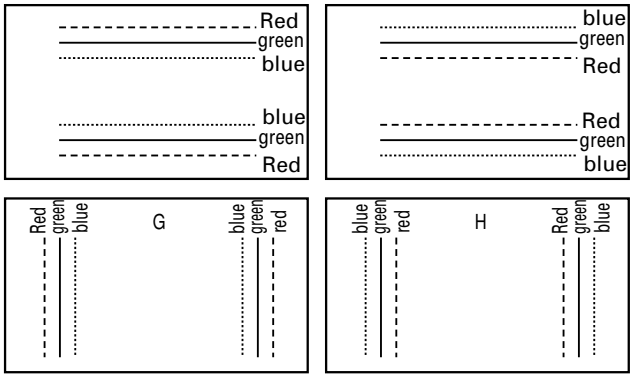
Adjust VR 1 and minimize the deviation of YH. *Only 27", 30" and 32".



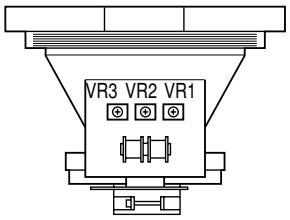
Adjust VR 2 (YHC) and minimize the deviation of YH.



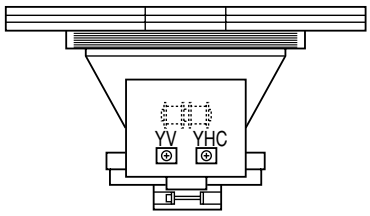
Adjust VR 3 (YV) and minimize the deviation of YV.



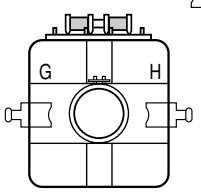
■ 30", 27", 32"



■ 34"



27" (Part No. 23 947 371)
32", 30" (Part No. 23 947 121)
34" (Part No. 23 993 080)



Perform correction by inserting the correction piece into the clearance of terminal board coils of the deflection yoke.

Note:

Perform insertion by turning the metal side to the terminal board side of the deflection yoke.

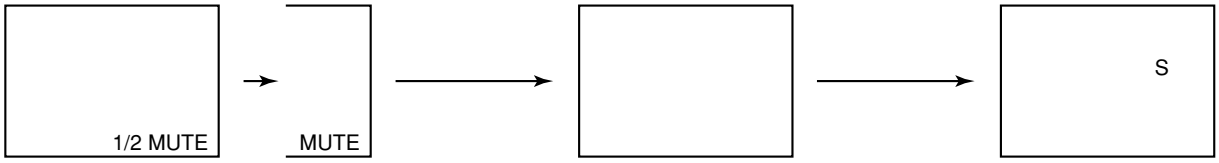
SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press MUTE button twice on Remote Control.

2) Press MUTE button again to keep pressing.

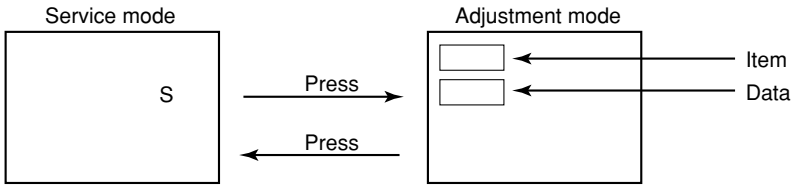
3) While pressing the MUTE button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:	TV (ANT)/VIDEO button (on TV)
Test signal selection :	TV (ANT)/VIDEO button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ▲/▼ (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02, QA04) :	RECALL+Channel (▲) button on TV
Initialization of the self diagnostic data:	RECALL+Channel (▼) button on TV

“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“CNTX” selection :	4 button
“COLC” selection :	5 button
“TNTC” selection :	6 button
Test audio signal ON/OFF (1kHz) :	8 button
Self diagnostic display ON/OFF :	9 button

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 14)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ▲ or ▼ button will cahnge the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02 AND QA04

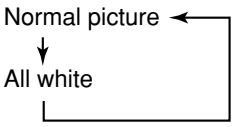
After replacing QA02 and QA04, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the RECALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 and QA04 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform “Programming Channel Memory” on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02, QA04 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of TV/VIDEO button on the Remote Control in the Service mode changes the built-in test patterns on screen in the following order.



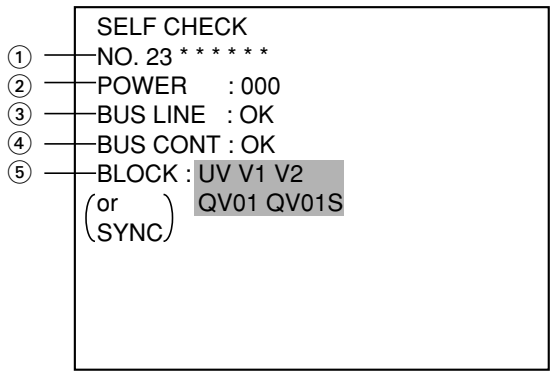
Signals	Picture
• All White	

2) Press “8” button while any built-in test pattern to on the screen to output the 1 kHz sound. Press the button again to cut off the sound.

Note: If the video cable is connected to the VIDEO1 INPUT jack, the built-in pattern signals are not displayed.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



① Part number of microprocessor (QA01)
② Operation number of protection circuit (current limiter) . . . . “000” is normal.
③ BUS line check
- “OK” ..... Normal
- “SCL-GND” or “NG” ..... SCL-GND short circuit
- “SDA-GND” or “NG” ..... SDA-GND short circuit
- “SCL-SDA” or “NG” ..... SCL-SDA short circuit

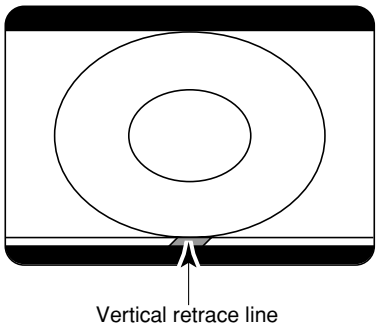
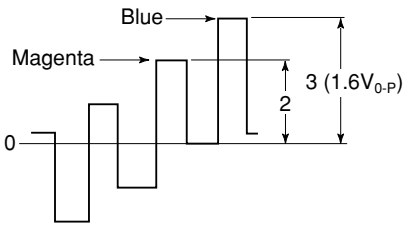
④ BUS line ACK (acknowledge) check
- “OK” ..... Normal
- Display of Location Number . . . . NG
  (Display example)
  “QA02 NG”, “H001 NG”, “Q501 NG” etc.
- Note: The indication of failure place is only one place though failure places are plural. When repair of a failure place finishes, the next failure place is indicated. (The order of priority of indication is left side.)

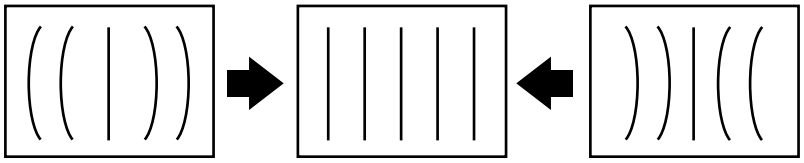
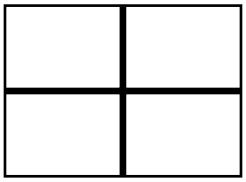
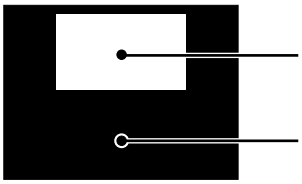
⑤ Sync. signal check
- Green display ..... Normal
- Cyan display ..... No check
- Red display ..... NG

UV ..... TV mode
V1 ..... VIDEO 1 mode
V2 ..... VIDEO 2 mode

***** The items marked with ▒ are not usable to display in the SELF DIAGNOSTIC FUNCTION for some model.

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC)	1. Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT). 2. Adjust the CONTRAST control to the minimum. 3. Call up the adjustment mode display, then select the item **BRTC**. 4. Press the VOLUME ▲ or ▼ button so the belt of vertical retrace line just disappear. 5. Adjust the CONTRAST control for the desired contrast. 6. Perform the HEIGHT adjustment. 
SUB-COLOR (SCOL) SUB-TINT (TNTC)	1. Receive color-bar signal from color-bar generator. 2. Press the RESET button. 3. Connect oscilloscope to TP501 on SIGNAL board. 4. Adjust the CONTRAST control to the minimum. 5. Call up the adjustment mode display, then select the item **TNTC**. 6. Adjust the SUB-TINT by pressing the VOLUME ▲ or ▼ button to obtain a blue bar to magenta bar ratio of 3:2 as shown.  7. Press the RESET button. 8. Select the item **SCOL**. 9. Adjust the SUB-COLOR by pressing the VOLUME ▲ or ▼ button to achieve 1.6$V_{0\text{-}p}$ of a blue bar on scope. 10. Check the picture with off-air signal.
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▲ or ▼ button to get the picture so the left and right edges of raster begins to lack. 3. Press the VOLUME ▲ or ▼ button to advance the data by 7 steps. Note : Check the horizontal picture position is correct.

ITEM	ADJUSTMENT PROCEDURE
E-W PARABOLA (DPC) (PARA)	1. Call up the adjustment mode display, then select the item **PARA**. 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME ▲ or ▼ button to make vertical lines straight as shown below. 
HORIZONTAL POSITION (HPOS) VERTICAL POSITION (VPOS)	1. Call up the adjustment mode display, then select the item **HPOS** or **VPOS**. 2. Press the TV/VIDEO button on Remote until the white cross-bar or black cross-bar pattern appears on the screen. 3. Adjust the HORIZONTAL and VERTICAL position alternately by pressing the VOLUME ▲ or ▼ button for proper picture position. 4. Check the picture with off-air signal. 
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▲ or ▼ button to get the picture so the top of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 9 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (GDRV) (BDRV)	1. Adjust the CONTRAST control to the center, and BRIGHTNESS control to the maximum. 2. Call up the adjustment mode display, and press the TV/VIDEO button on Remote until the white and black pattern appears on the screen. 3. Adjust the following items with the CHANNEL ▲/▼ and VOLUME ▲/▼ buttons. Item : RCUT ⟶ Data : 40H Item : GCUT ⟶ Data : 40H Item : BCUT ⟶ Data : 40H Item : GDRV ⟶ Data : 40H Item : BDRV ⟶ Data : 40H 4. Press the TV/VIDEO button on TV to display a single horizontal line on the screen. 5. Turn the SCREEN control (FBT) fully counterclockwise and gradually rotate clockwise until the first horizontal line appears slightly on the screen. 6. Press the TV/VIDEO button to display the normal picture. 7. Adjust the remaining two "?CUT" items (CHANNEL ▲/▼ → TV/VIDEO → VOLUME ▲/▼ in order) to obtain the slightly lighted horizontal line in the same levels of three (red, green, blue) colors. The line should be white if the adjustments are proper.  Bright area Adjust "GDRV" or "BDRV" to be white. Dark area Fine adjust "RCUT", "GCUT" or "BCUT" to be black.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

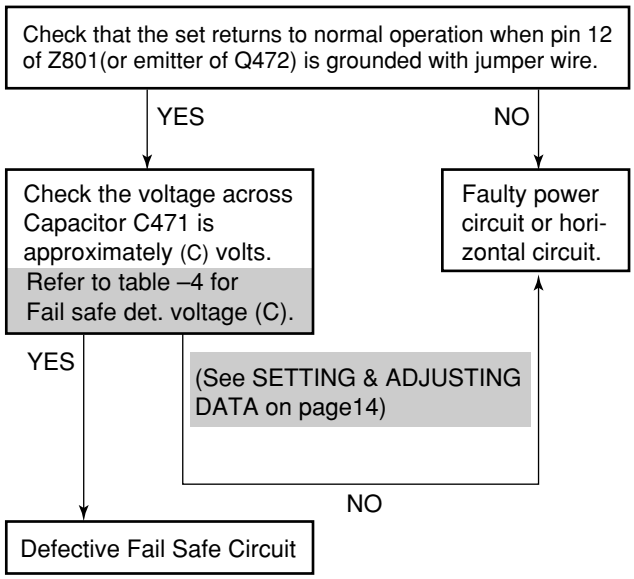
1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.
   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 14)
4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

FS CIRCUIT CHECK

The Fail Safe (FS) circuit check is indispensable for the final check in servicing. Checking should be done following the steps below.

1. Turn the receiver on and press the RESET button.
2. Temporarily short TP-(R) and TP-(X) with a jumper wire. Raster and sound will disappear.
3. The receiver must remain in this state even after removing the jumper wire. This is the evidence that the FS circuit is functioning properly.
4. To obtain a picture again, temporarily turn the receiver off and allow the FS circuit more than 5 seconds to reset. Then turn the power switch on to produce a normal picture.

Troubleshooting Guide for Fail Safe Circuit


Check that the set returns to normal operation when pin 12 of Z801(or emitter of Q472) is grounded with jumper wire.
YES
NO
Check the voltage across Capacitor C471 is approximately (C) volts.
Refer to table –4 for Fail safe det. voltage (C).
Faulty power circuit or horizontal circuit.
YES
(See SETTING & ADJUSTING DATA on page14)
NO
Defective Fail Safe Circuit

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		36"
HIGH VOLTAGE AT ZERO BEAM:	(A)	32.7 kV
MAX HIGH VOLTAGE:	(B)	34.1 kV

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Name of adjustment	Preset	Data
RCUT	R CUTOFF	40H	←
GCUT	G CUTOFF	40H	←
BCUT	B CUTOFF	40H	←
GDRV	G DRIVE	40H	←
BDRV	B DRIVE	40H	←
BRTC	BRIGHT CENT	80H	←
TNTC	TINT CENT	46H	←
SCOL	SUB-COLOR	06H	←
SCNT	SUB-CONTRAST	12H	←
HIT	HEIGHT	40H	←
LIN	V-LINEARITY	14H	←
VSC	V-S CORRECTION	36H	←
VPS2	V-SHIFT	02H	←
VCP	V-COMPENSATION	02H	←
WID	PICTURE WIDTH	1EH	←

Item	Name of adjustment	Preset	Data
PARA	E-W PARABOLA	16H	←
CNR	E-W CORNER	13H	←
TRAP	TRAPEZIUM	33H	←
HCP	H-CONMPENSATION	02H	←
VFC	V-F CORRECTION	0CH	←
HPS	H-POSITION	3FH	←
GMPS	GMPS	2FH	←
CPAR	CENTER PARA	04H	←
PHUE	PIP TINT	40H	←
PCNT	PIP CONTRAST	0FH	←
PCOL	PIP COLOR	19H	←
PYOF	PIP Y OFF SET	17H	←
PIOF	PIP I OFF SET	24H	←
PQOF	PIP Q OFF SET	1EH	←

Table-2

OPTION: (PROGRESSIVE 4:3 DV)

MODELS	OPT1 (2CAH)	OPT2(2CBH)
	HEX	HEX
36"	4AH	25H

Table-3

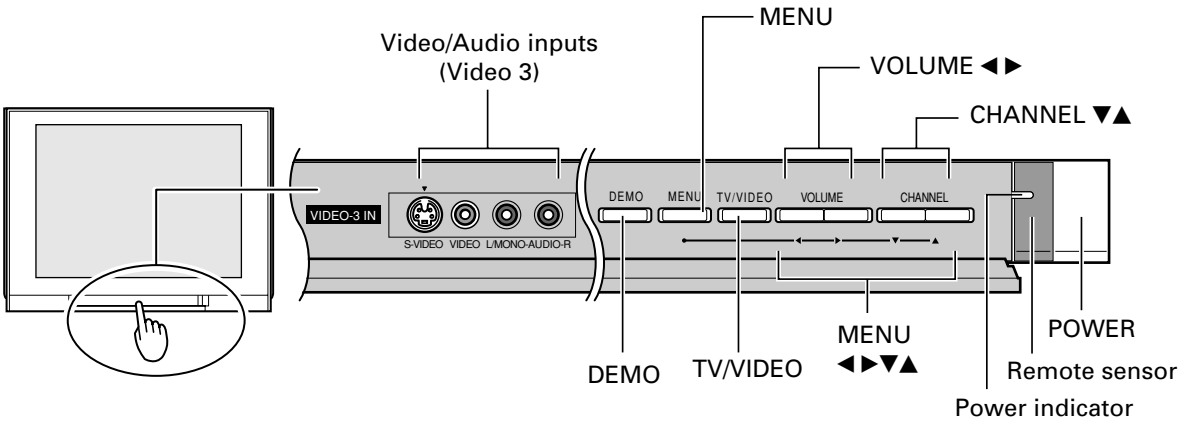
【 CIRCUIT CHECKS 】

FAIL SAFE DET. VOLTAGE	(C)	20.44 V

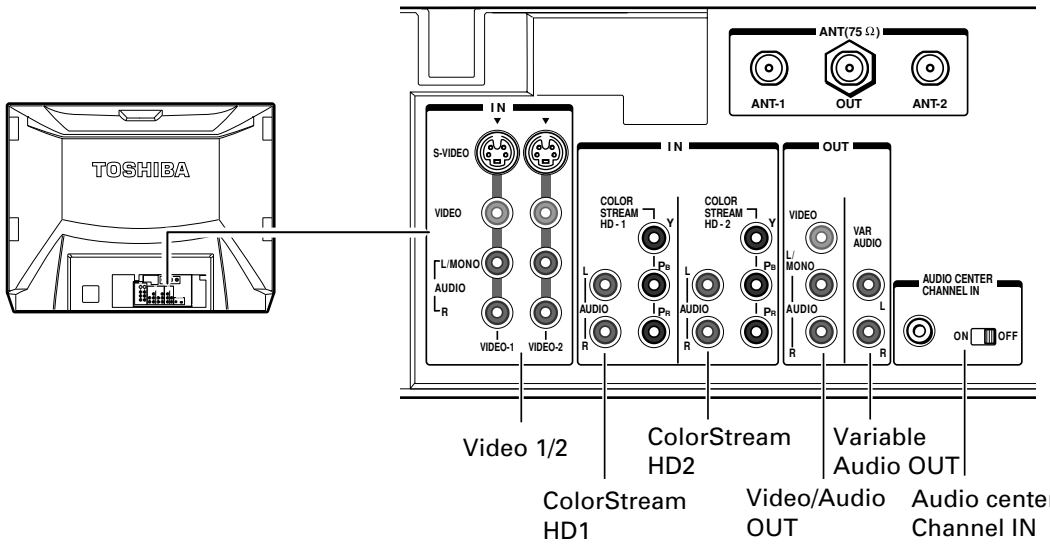
Table-4

LOCATION OF CONTROLS (Representatives: 36HFX72)

TV Front



TV Rear



Remote Control

Power turns the TV on or off

SLEEP sets the TV to turn at a specific time

LIGHT The initial press of the LIGHT button causes two actions:

Channel Numbers (0–9, 100) allow direct access to channels

MODE cycles through the 6 device modes

FAVOURITE allows access to Multi-Window function

PIC SIZE cycles through the three picure formats

MENU allows access to programming

ENTER sets programming menu information

▲▼◄► selects or adjusts programming menus

[FAV] ◄► selects your favourite channels

Volume ▲▼ adjusts the volume level

EXIT exits programming menus

Channel ▲▼ cycles through programmed channels

CH RTN returns to the last viewed channels

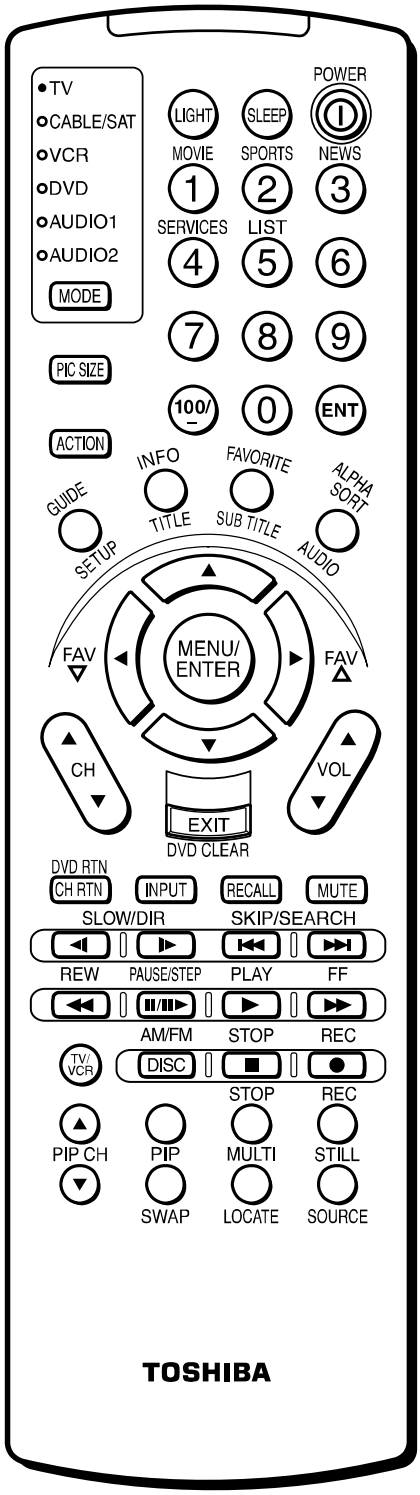
RECALL displays on-screen information

MUTE mutes the sound

INPUT selects video input source

PIP allows access to PIP functions

- **PIP** turns the PIP on or off
- **PIP CH ▲▼** selects the PIP channels
- **MULTI** allows access to Multi-Windows function
- **STILL** freezes the PIP
- **SOURCE** selects the PIP source
- **LOCATE** moves the PIP
- **SWAP** switches the PIP and main pictures



PROGRAMMING CHANNEL MEMORY

The channel memory is the list of TV channel numbers your TV will stop on when you press the CHANNEL ▲ or ▼ button.
First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area automatically.
If necessary, arrange the preset channels with the ADD/ERASE functions so that you can tune into only desired channels.
Note: If you utilize both ANT-1 and ANT-2 terminals for some model, perform programming channels for each input source.

TV/CABLE function

1 Press **MENU**, then press ► or ◄ until the SET UP menu appears.

2 Press ▼ (or ▲) until "TV/CABLE" is highlighted.

3 Press ► or ◄ to highlight either "TV" or "CABLE", whichever you use.

CH PROGRAM function

1 Select "CH PROGRAM" following steps 1 and 2 above.

2 Press ► or ◄ to start channel programming.
The TV will automatically cycle through all the TV or CABLE channels selected by the TV/CABLE function, and store active channels in the channel memory.

3 When channel programming is complete, you will see the message to the right.

4 Press **CHANNEL** ▲ or ▼ to make sure the channel programming has been done properly.

ADD/ERASE function

After performing the CH PROGRAM function, you can add or erase specific channels.

1 Select the channel you want to erase using the CHANNEL ▲ or ▼ button, or select the channel you want to add using the **Channel Number** buttons.

2 Press **MENU**, then press ► or ◄ until the SET UP menu appears.

3 Press ▼ (or ▲) until "ADD/ERASE" is highlighted.

4 Press ► or ◄ :
To erase the channel
Press the button until "Erase" is highlighted.

To add the channel
Press the button until "Add" is highlighted.

5 Repeat steps 1 to 4 for other channels.

You have now completed the channel programming.

Note: The CHANNEL ▼/▲ buttons on the TV function as the ▼/▲ buttons while a menu is on the screen.

* Please refer to owner's manual in detail.

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ∗ mark is no longer available after the end of the production.*

Model : 36HFX72/36HF72

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	: Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	: Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C102	24793471	ELECTROLYTIC, 10V 470UF M
C103	24100103	CERAMIC CHIP, 50V F 0.01UF Z
C105	24109102	CERAMIC CHIP, 50V B 1000PF K
C106	24797479	ELECTROLYTIC, 50V 4.7UF M
C107	24794221	ELECTROIYTIC, 16V 220UF M
C112	24793471	ELECTROLYTIC, 10V 470UF M
C115	24109102	CERAMIC CHIP, 50V B 1000PF K
C117	24794221	ELECTROIYTIC, 16V 220UF M
C151	24109102	CERAMIC CHIP, 50V B 1000PF K
C205	24797229	ELECTROLYTIC, 50V 2.2UF M
C206	24794220	ELECTROLYTIC, 16V 22UF M
C303	24214471	CERAMIC DISC, 500V B 470PF K
C304	24693473	PLASTIC FILM, 100V 0.047UF J
C306	24795332	ELECTROLYTIC, 25V 3300UF M
C308	24669221	ELECTROLYTIC, 50V 220UF M 3A
C310	24669222	ELECTROLYTIC, 50V 2200UF M 3A
C312	24503037	MT PLA CAP 63V 0.047UF J
C313	24082057	PLASTIC FILM, 100V 220000PF J
C314	24793101	ELECTROLYTIC, 10V 100UF M
C315	24212222	CERAMIC DISC, 50V B 2200PF K
C318	24073041	ELECTROLYTIC, 16V 470UF M 3A
C319	24591103	PLASTIC FILM, 50V 0.01UF J
C320	24669101	ELECTROLYTIC, 50V 100UF M 3A
C322	24617912	ELECTROLYTIC, 50V 2.2UF K 3A LI
C323	24567474	PLASTIC FILM, 50V 0.47UF J
C325	24591203	PLASTIC FILM, 50V 0.02UF J
C326	24212102	CERAMIC DISC, 50V B 1000PF K
C327	24073041	ELECTROLYTIC, 16V 470UF M 3A
C328	24212561	CERAMIC DISC, 50V B 560PF K
C352	24617915	ELECTROLYTIC, 50V 1UF K 3A LI
C361	24591103	PLASTIC FILM, 50V 0.01UF J
C362	24503041	PLASTIC FILM , 63V 0.1UF J
C370	24669101	ELECTROLYTIC, 50V 100UF M 3A
C371	24668100	ELECTROLYTIC, 35V 10UF M 3A
C391	24794100	ELECTROLYTIC, 16V 10UF M
C392	24085961	ELECTROLYTIC, NONPOLAR, 50V 10UF M 11L
C393	24794100	ELECTROLYTIC, 16V 10UF M
C396	24082825	PLASTIC FILM, 1800VH 1800PF H

Location No.	Parts No.	Description
C410	24829563	PLASTIC FILM CQ92 T 400V 56000PF J
C413	24214392	CERAMIC DISK CK45 B 500V 3900PF K
C415	24092729	CERAMIC CHIP CK73B 16V 68000PFK
C416	24676330	ELECTROLYTIC, 100V 33UF M 3A
C417	24214391	CERAMIC DISC, 500V B 390PF K
C424	24763101	ELECTROLYTIC, 16V 100UF M
C425	24763101	ELECTROLYTIC, 16V 100UF M
⚠ C428	24082647	PLASTIC FILM, 400V 0.27UF J
C430	24109103	CERAMIC CHIP, 50V B 0.01UF K
C431	24763221	ELECTROLYTIC, 16V 220UF M
C432	24567474	PLASTIC FILM, 50V 0.47UF J
C434	24820332	PLASTIC FILM CQ92 T 630V 3300PF J
C435	24212101	CERAMIC DISC, 50V B 100PF K
C436	24503041	PLASTIC FILM , 63V 0.1UF J
⚠ C437	24082399	PLASTIC FILM CF92 T 1250VH 1600PF H
C439	24503125	PLASTIC FILM, 400V 0.075UF J
⚠ C440	24082592	PLASTIC FILM CF92 T 1800VH 1000PF H
⚠ C442	24082648	PLASTIC FILM, 400V 0.3UF J
⚠ C443	24082608	PLASTIC FILM, 1800VH 4700PF H
⚠ C444	24082609	PLASTIC FILM, 1800VH 5100PF H
C445	24095740	PLASTIC FILM CF92 T 400V R047UF J
C446	24640020	ELECTROLYTIC CE04Q 250V 33UF M H-R
C448	24640962	CHEMICON 04H 200V 330M
C449	24667471	ELECTROLYTIC, 25V 470UF M 3A
C450	24092344	CERAMIC DISC, 2KV 820PF K
C451	24092344	CERAMIC DISC, 2KV 820PF K
⚠ C452	24082597	PLASTIC FILM, 1800VH 1600PF H
C461	24763101	ELECTROLYTIC, 16V 100UF M
C463	24591102	PLASTIC FILM, 50V 1000PF J
C464	24640900	ELEC, CE04W 100V 4.7MF CE04W2A4R7
⚠ C465	24082429	PLASTIC FILM CF92 T 1250VH 10000PF H
C466	24503041	PLASTIC FILM , 63V 0.1UF J
⚠ C467	24082429	PLASTIC FILM CF92 T 1250VH 10000PF H
C468	24567474	PLASTIC FILM, 50V 0.47UF J
⚠ C469	24082429	PLASTIC FILM CF92 T 1250VH 10000PF H
C470	24766220	ELECTROLYTIC, 50V 22UF M
C471	24766479	ELECTROLYTIC, 50V 4.7UF M
C472	24567474	PLASTIC FILM, 50V 0.47UF J
C475	24214102	CERAMIC DISC, 500V B 1000PF K

Location No.	Parts No.	Description
C476	24214471	CERAMIC DISC, 500V B 470PF K
C477	24666220	ELECTROLYTIC, 16V 22UF M 3A
C480	24794100	ELECTROLYTIC, 16V 10UF M
C481	24214121	CERAMIC DISC, 500V B 120PF K
C481	24794100	ELECTROLYTIC, 16V 10UF M
C482	24109122	CERAMIC CHIP, 50V B 1200PF K
C488	24666100	ELECTROLYTIC, 10V 10UF M 3A
⚠ C491	24082649	PLASTIC FILM, 400V 0.33UF J
⚠ C492	24082649	PLASTIC FILM, 400V 0.33UF J
C497	24829473	PLASTIC FILM, 400V 47000PF J
C499	24828823	PLASTIC FILM, 200V 0.082UF J
C513	24109103	CERAMIC CHIP, 50V B 0.01UF K
C515	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C520	24539334	PLASTIC FILM, 50V 0.33UF J
C530	24797010	ELECTROLYTIC, 50V 1UF M
C531	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C532	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C533	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C534	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C536	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C537	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C540	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C541	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C542	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C546	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C547	24109103	CERAMIC CHIP, 50V B 0.01UF K
C550	24503047	PLASTIC FILM, 63V 0.33UF J
C551	24503047	PLASTIC FILM, 63V 0.33UF J
C560	24797010	ELECTROLYTIC, 50V 1UF M
C561	24797010	ELECTROLYTIC, 50V 1UF M
C562	24797010	ELECTROLYTIC, 50V 1UF M
C563	24797478	ELECTROLYTIC, 50V 0.47UF M
C564	24797229	ELECTROLYTIC, 50V 2.2UF M
C565	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C566	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C567	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C568	24797478	ELECTROLYTIC, 50V 0.47UF M
C573	24109103	CERAMIC CHIP, 50V B 0.01UF K
C598	24073042	ELECTROLYTIC, 16V 1000UF M 3A
C601	24590223	PLASTIC FILM, 50V 0.022MF J
C602	24590223	PLASTIC FILM, 50V 0.022MF J
C612	24668101	ELECTROLYTIC, 35V 100UF M 3A
C613	24109103	CERAMIC CHIP, 50V B 0.01UF K
C661	24109561	CERAMIC CHIP, 50V B 560PF K (36HFX72)
C661	24109561	CERAMIC CHIP, 50V B 560PF K (36HF72)
C662	24109561	CERAMIC CHIP, 50V B 560PF K (36HFX72)
C662	24109561	CERAMIC CHIP, 50V B 560PF K (36HF72)
C664	24794220	ELECTROLYTIC, 16V 22UF M
C665	24794100	ELECTROLYTIC, 16V 10UF M
C671	24669479	ELECTROLYTIC, 50V 4.7UF M 3A (36HFX72)
C672	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C673	24669010	ELECTROLYTIC, 50V 1.0UF M 3A (36HFX72)
C673	24669100	ELECTROLYTIC, 50V 10UF M 3A (36HF72)
C674	24590561	PLASTIC FILM CQ922M 50V 560PF J
C675	24590561	PLASTIC FILM CQ922M 50V 560PF J
C676	24503041	PLASTIC FILM , 63V 0.1UF J
C677	24503041	PLASTIC FILM , 63V 0.1UF J
C678	24669010	ELECTROLYTIC, 50V 1.0UF M 3A (36HFX72)
C678	24669100	ELECTROLYTIC, 50V 10UF M 3A (36HF72)
C679	24667470	ELECTROLYTIC, 25V 47UF M 3A
C680	24109333	CERAMIC CHIP CK73B 25V 33000PFK (36HFX72)
C681	24668471	ELECTROLYTIC, 35V 470UF M 3A
C682	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C683	24668471	ELECTROLYTIC, 35V 470UF M 3A

Location No.	Parts No.	Description
C684	24668102	ELECTROLYTIC, 35V 1000UF M 3A (36HFX72)
C686	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
C704	24591822	PLASTIC FILM, 50V 8200PF J
C705	24232103	CERAMIC DISC, 50V F 10000PF Z
C707	24794470	ELECTORLYTIC, 16V 47UF M
C712	24666470	ELECTORLYTIC, 16V 47UF M 3A
C713	24709100	ELECTROLYTIC, 200V 10UF M
C714	24436101	CERAMIC DISC CC45 SL 50V100PF J
C715	24214472	CERAMIC DISC, 500C B 4700PF K
C716	24436101	CERAMIC DISC CC45 SL 50V100PF J
C717	24214472	CERAMIC DISC, 500C B 4700PF K
C718	24766470	ELECTROLYTIC, 50V 47UF M
C719	24435560	CERAMIC DISC, 500V SL 56PF J
C720	24709100	ELECTROLYTIC, 200V 10UF M
C721	24797470	ELECTROLYTIC, 50V 47UF M
C726	24212102	CERAMIC DISC, 50V B 1000PF K
⚠ C801	24503002	PLASTIC FILM, AC275V 0.22UF M
⚠ C802	24503001	PLASTIC FILM, AC275V 0.1UF M
C805	24092623	CERAMIC DISC, 250V F 0.01UF Z
C806	24092623	CERAMIC DISC, 250V F 0.01UF Z
C807	24214103	CERAMIC DISC, 500V B 10000PF K
C810	24086933	ELECTROLYTIC, 200V 1000M30F
⚠ C811	24092597	CERAMIC DISC CK45E AC250V 4700PF M
⚠ C812	24092597	CERAMIC DISC CK45E AC250V 4700PF M
⚠ C813	24092598	CERAMIC DISC CK45F AC250V 10000PF M
⚠ C814	24092598	CERAMIC DISC CK45F AC250V 10000PF M
C821	24794102	ELECTROLYTIC, 16V 1000UF M
C822	24503047	PLASTIC FILM, 63V 0.33UF J
C823	24503047	PLASTIC FILM, 63V 0.33UF J
C824	24503047	PLASTIC FILM, 63V 0.33UF J
C825	24503047	PLASTIC FILM, 63V 0.33UF J
C826	24503047	PLASTIC FILM, 63V 0.33UF J
C827	24503047	PLASTIC FILM, 63V 0.33UF J
C828	24503047	PLASTIC FILM, 63V 0.33UF J
C829	24794470	ELECTORLYTIC, 16V 47UF M
C837	24503041	PLASTIC FILM , 63V 0.1UF J
C838	24617026	ELECTROLYTIC, 16V 820UF M
C839	24794102	ELECTROLYTIC, 16V 1000UF M
C840	24667222	ELECTROLYTIC, 25V 2200UF M 3A
C841	24503041	PLASTIC FILM , 63V 0.1UF J
C842	24792101	ELECTROLYTIC, 6.3V 100UF M
C844	24503041	PLASTIC FILM , 63V 0.1UF J
C846	24214331	CERAMIC DISC, 500V B 330PF K
C847	24669339	ELECTROLYTIC, 50V 3.3UF M
C848	24794102	ELECTROLYTIC, 16V 1000UF M
C850	24503047	PLASTIC FILM, 63V 0.33UF J
C851	24503047	PLASTIC FILM, 63V 0.33UF J
C860	24214103	CERAMIC DISC, 500V B 10000PF K
C862	24435221	CERAMIC DISC, 500V SL 220PF J
C863	24503041	PLASTIC FILM , 63V 0.1UF J
C864	24092347	CERAMIC DISC, 2KV R 1500PF K
C865	24092347	CERAMIC DISC, 2KV R 1500PF K
C866	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C867	24591682	PLASTIC FILM, 50V 6800PF J
C868	24668470	ELECTROLYTIC, 35V 47UF M 3A
C869	24678229	ELECTROLYTIC, 200V 2.2UF M 3A
C870	24503175	PLASTIC CAP T 630V 184J
C871	24092347	CERAMIC DISC, 2KV R 1500PF K
C873	24567224	PLASTIC FILM, 50V 0.22UF J
C874	24435221	CERAMIC DISC, 500V SL 220PF J
C876	24503041	PLASTIC FILM , 63V 0.1UF J
C877	24092347	CERAMIC DISC, 2KV R 1500PF K
C879	24212101	CERAMIC DISC, 50V B 100PF K
C881	24214471	CERAMIC DISC, 500V B 470PF K
C882	24214471	CERAMIC DISC, 500V B 470PF K

Location No.	Parts No.	Description
C884	24086049	ELECTROLYTIC, 160V 330UF M 3D
C885	24214471	CERAMIC DISC, 500V B 470PF K
C886	24214471	CERAMIC DISC, 500V B 470PF K
C889	24668332	ELECTROLYTIC, 35V 3300UF M 3A
C891	24082229	PLASTIC FILM, 250V 0.1UF D
C893	24092335	CERAMIC DISC, 2KV R 150PF K
C894	24092335	CERAMIC DISC, 2KV R 150PF K
C895	24796471	ELECTROLYTIC, 35V 470UF M
C896	24214471	CERAMIC DISC, 500V B 470PF K
C897	24617044	ELECTROLYTIC, 35V 2200UF M
C898	24503041	PLASTIC FILM , 63V 0.1UF J
C899	24214471	CERAMIC DISC, 500V B 470PF K
C902	24092353	CERAMIC DISC, 2KV 4700PF K
C904	24436471	CERAMIC DISC, 50V SL 470PF J
C905	24436391	CERAMIC DISC, 50V SL 390PF J
C907	24436561	CERAMIC DISC, 50V SL 560PF J
C909	24679220	ELECTROLYTIC, 250V 22UF M 3A
C910	24669478	ELECTROLYTIC, 50V 0.47UF M 3A
C911	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C912	24073042	ELECTROLYTIC, 16V 1000UF M 3A
C913	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C914	24232103	CERAMIC DISC, 50V F 10000PF Z
C918	24503041	PLASTIC FILM , 63V 0.1UF J
C919	24503041	PLASTIC FILM , 63V 0.1UF J
C920	24503041	PLASTIC FILM , 63V 0.1UF J
C921	24503041	PLASTIC FILM , 63V 0.1UF J
C922	24436390	CERAMIC DISC, 50V SL 39PFJ
C923	24794221	ELECTROIYTIC, 16V 220UF M
C924	24794221	ELECTROIYTIC, 16V 220UF M
C925	24794221	ELECTROIYTIC, 16V 220UF M
C926	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C931	24214101	CERAMIC DISC, 500V B 100PF K
C2061	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C2102	24105100	CERAMIC CHIP, 50V CH 10PF D
C2103	24105100	CERAMIC CHIP, 50V CH 10PF D
C2104	24105100	CERAMIC CHIP, 50V CH 10PF D
C2110	24109103	CERAMIC CHIP, 50V B 0.01UF K
C3103	24105330	CERAMIC CHIP, 50V CH 33PF J
C3110	24567104	PLASTIC FILM, 50V 0.1UF J
C4030	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4101	24212332	CERAMIC DISC, 50V B 3300PF K
C4404	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C4405	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C4406	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4407	24766010	ELECTROLYTIC, 50V 1UF M
C4408	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4415	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4421	24085988	ELECTROLYTIC, NONPOLAR, 50V 1.0UF M 7L
C4426	24763331	ELECTROLYTIC, 16V 330UF M
C4427	24085988	ELECTROLYTIC, NONPOLAR, 50V 1.0UF M 7L
C4463	24567224	PLASTIC FILM, 50V 0.22UF J
C4464	24766010	ELECTROLYTIC, 50V 1UF M
C4699	24668222	ELECTROLYTIC, 35V 2200UF M 3A
C4816	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C4817	24590102	PLASTIC FILM, 50V 1000PF J
C4818	24503041	PLASTIC FILM , 63V 0.1UF J
C4819	24567684	PLASTIC FILM, 50V 0.68UF J
C5020	24109103	CERAMIC CHIP, 50V B 0.01UF K
C5030	24794101	ELECTROLYTIC, 16V 100UF M
C5088	24797010	ELECTROLYTIC, 50V 1UF M
C5090	24794101	ELECTROLYTIC, 16V 100UF M
C5280	24105101	CERAMIC CHIP, 50V CH 100PF J
C8601	24214103	CERAMIC DISC, 500V B 10000PF K
CA04	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA05	24109103	CERAMIC CHIP, 50V B 0.01UF K

Location No.	Parts No.	Description
CA06	24109392	CERAMIC CHIP, 50V B 3900PF K
CA07	24109392	CERAMIC CHIP, 50V B 3900PF K
CA23	24105101	CERAMIC CHIP, 50V CH 100PF J
CA25	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA27	24092538	CERAMIC CHIP, 10V F 1UF Z
CA28	24085970	ELECTROLYTIC, NONPOLAR, 16V 10UF M 7L
CA30	24085970	ELECTROLYTIC, NONPOLAR, 16V 10UF M 7L
CA31	24092538	CERAMIC CHIP, 10V F 1UF Z
CA33	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA34	24092538	CERAMIC CHIP, 10V F 1UF Z
CA37	24105101	CERAMIC CHIP, 50V CH 100PF J
CA38	24105101	CERAMIC CHIP, 50V CH 100PF J
CA39	24105101	CERAMIC CHIP, 50V CH 100PF J
CA42	24109392	CERAMIC CHIP, 50V B 3900PF K
CA45	24105471	CERAMIC CHIP, 50V CH 470PF J
CA46	24105101	CERAMIC CHIP, 50V CH 100PF J
CA54	24092730	CERAMIC CHIP, 16V B 0.1UF K
CA57	24105101	CERAMIC CHIP, 50V CH 100PF J
CA60	24105101	CERAMIC CHIP, 50V CH 100PF J
CA61	24666220	ELECTROLYTIC, 16V 22UF M 3A
CA69	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA71	24105331	CERAMIC CHIP, 50V CH 330PF J
CA72	24085970	ELECTROLYTIC, NONPOLAR, 16V 10UF M 7L
CA73	24666100	ELECTROLYTIC, 10V 10UF M 3A
CA80	24503041	PLASTIC FILM , 63V 0.1UF J
CA81	24073015	ELECTROLYTIC, 10V 47UF M 3A
CA82	24539474	PLASTIC FILM, 50V 0.47UF J
CA95	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA98	24797220	ELECTROLYTIC, 50V 22UF M
CA251	24073015	ELECTROLYTIC, 10V 47UF M 3A
CA331	24073015	ELECTROLYTIC, 10V 47UF M 3A
CA611	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA680	24666100	ELECTROLYTIC, 10V 10UF M 3A
CA701	24092538	CERAMIC CHIP, 10V F 1UF Z
CA705	24666100	ELECTROLYTIC, 10V 10UF M 3A
CB01	24794470	ELECTORLYTIC, 16V 47UF M
CB05	24666100	ELECTROLYTIC, 10V 10UF M 3A
CB13	24085970	ELECTROLYTIC, NONPOLAR, 16V 10UF M 7L
CB14	24105331	CERAMIC CHIP, 50V CH 330PF J
CB15	24794100	ELECTROLYTIC, 16V 10UF M
CB40	24797010	ELECTROLYTIC, 50V 1UF M
CB41	24109102	CERAMIC CHIP, 50V B 1000PF K
CB42	24105561	CERAMIC CHIP, 50V CH 560PF J
CB42	24232103	CERAMIC DISC, 50V F 10000PF Z
CB43	24109122	CERAMIC CHIP, 50V B 1200PF K
CB44	24797100	ELECTROLYTIC, 50V 10UF M
CB90	24109103	CERAMIC CHIP, 50V B 0.01UF K
CD01	24797479	ELECTROLYTIC, 50V 4.7UF M
CD02	24797479	ELECTROLYTIC, 50V 4.7UF M
CD03	24503041	PLASTIC FILM , 63V 0.1UF J
CD04	24503041	PLASTIC FILM , 63V 0.1UF J
CD05	24590102	PLASTIC FILM, 50V 1000PF J
CD06	24503045	PLASTIC FILM, 63V 0.22UF J
CD07	24797229	ELECTROLYTIC, 50V 2.2UF M
CD08	24794221	ELECTROIYTIC, 16V 220UF M
CD09	24232103	CERAMIC DISC, 50V F 10000PF Z
CD10	24797479	ELECTROLYTIC, 50V 4.7UF M
CD11	24797479	ELECTROLYTIC, 50V 4.7UF M
CD12	24797479	ELECTROLYTIC, 50V 4.7UF M
CD13	24797479	ELECTROLYTIC, 50V 4.7UF M
CD14	24797479	ELECTROLYTIC, 50V 4.7UF M
CD15	24797479	ELECTROLYTIC, 50V 4.7UF M
CD16	24797479	ELECTROLYTIC, 50V 4.7UF M
CD17	24503045	PLASTIC FILM, 63V 0.22UF J
CD18	24590102	PLASTIC FILM, 50V 1000PF J

Location No.	Parts No.	Description
CD19	24590183	PLASTIC FILM, 50V 0.018UF J (36HFX72)
CD19	24567333	PLASTIC FILM, 50V 33000PF J (36HF72)
CD20	24503038	MT PLA CAP 63V 0.056UF J (36HFX72)
CD20	24503039	MT PLA CAP 63V 0.068UF J (36HF72)
CD21	24590473	PLASTIC FILM, 50V 0.047MF J (36HFX72)
CD21	24539104	PLASTIC FILM, 50V 0.1UF J (36HF72)
CD22	24797479	ELECTROLYTIC, 50V 4.7UF M
CD23	24797479	ELECTROLYTIC, 50V 4.7UF M
CD24	24590103	PLASTIC FILM, 50V 0.01MF J
CD25	24590103	PLASTIC FILM, 50V 0.01MF J
CD26	24590103	PLASTIC FILM, 50V 0.01MF J
CD41	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
CD41	24797479	ELECTROLYTIC, 50V 4.7UF M (36HF72)
CD42	24590103	PLASTIC FILM, 50V 0.01MF J (36HFX72)
CD42	24797479	ELECTROLYTIC, 50V 4.7UF M (36HF72)
CD43	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
CD43	24797479	ELECTROLYTIC, 50V 4.7UF M (36HF72)
CD44	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
CD44	24797479	ELECTROLYTIC, 50V 4.7UF M (36HF72)
CD45	24503049	PLASTIC FILM, 63V 0.47UF J (36HFX72)
CD45	24503041	PLASTIC FILM , 63V 0.1UF J (36HF72)
CD46	24503049	PLASTIC FILM, 63V 0.47UF J (36HFX72)
CD46	24567103	PLASTIC FILM, 50V 0.01UF J (36HF72)
CD47	24503047	PLASTIC FILM, 63V 0.33UF J (36HFX72)
CD47	24797478	ELECTROLYTIC, 50V 0.47UF M (36HF72)
CD48	24503047	PLASTIC FILM, 63V 0.33UF J (36HFX72)
CD48	24590472	PLASTIC FILM, 50V 4700PF J (36HF72)
CD49	24797010	ELECTROLYTIC, 50V 1UF M (36HFX72)
CD49	24797478	ELECTROLYTIC, 50V 0.47UF M (36HF72)
CD60	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
CD60	24503041	PLASTIC FILM , 63V 0.1UF J (36HF72)
CD61	24590333	PLASTIC FILM, 50V 0.033MF J (36HFX72)
CD61	24763221	ELECTROLYTIC, 16V 220UF M (36HF72)
CD62	24590103	PLASTIC FILM, 50V 0.01MF J (36HFX72)
CD62	24232103	CERAMIC DISC, 50V F 10000PF Z (36HF72)
CD63	24503049	PLASTIC FILM, 63V 0.47UF J (36HFX72)
CD63	24762102	ELECTROLYTIC, 10V 1000UF M (36HF72)
CD64	24539334	PLASTIC FILM, 50V 0.33UF J (36HFX72)
CD64	24797479	ELECTROLYTIC, 50V 4.7UF M (36HF72)
CD65	24436221	CERAMIC DISC, 50V SL 220PF J (36HFX72)
CD65	24797100	ELECTROLYTIC, 50V 10UF M (36HF72)
CD66	24797100	ELECTROLYTIC, 50V 10UF M (36HF72)
CD70	24794221	ELECTROIYTIC, 16V 220UF M (36HFX72)
CD71	24232103	CERAMIC DISC, 50V F 10000PF Z (36HFX72)
CD73	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
CD74	24794221	ELECTROIYTIC, 16V 220UF M (36HFX72)
CD75	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
CD76	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
CD77	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
CD81	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
CD82	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
CD83	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
CD84	24503041	PLASTIC FILM , 63V 0.1UF J (36HFX72)
CD89	24797479	ELECTROLYTIC, 50V 4.7UF M (36HFX72)
CR12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR90	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CS03	24105221	CERAMIC CHIP, 50V CH 220PF J
CS04	24797010	ELECTROLYTIC, 50V 1UF M
CS07	24105221	CERAMIC CHIP, 50V CH 220PF J
CS08	24797010	ELECTROLYTIC, 50V 1UF M
CS09	24105331	CERAMIC CHIP, 50V CH 330PF J
CS10	24797229	ELECTROLYTIC, 50V 2.2UF M
CS11	24797010	ELECTROLYTIC, 50V 1UF M

Location No.	Parts No.	Description
CS12	24105221	CERAMIC CHIP, 50V CH 220PF J
CS13	24797010	ELECTROLYTIC, 50V 1UF M
CS14	24105221	CERAMIC CHIP, 50V CH 220PF J
CS15	24105331	CERAMIC CHIP, 50V CH 330PF J
CS16	24797229	ELECTROLYTIC, 50V 2.2UF M
CS21	24105101	CERAMIC CHIP, 50V CH 100PF J
CS22	24105101	CERAMIC CHIP, 50V CH 100PF J
CS23	24797010	ELECTROLYTIC, 50V 1UF M
CS24	24105331	CERAMIC CHIP, 50V CH 330PF J
CS25	24797229	ELECTROLYTIC, 50V 2.2UF M
CS28	24105331	CERAMIC CHIP, 50V CH 330PF J
CS29	24105331	CERAMIC CHIP, 50V CH 330PF J
CS30	24797229	ELECTROLYTIC, 50V 2.2UF M
CS32	24794100	ELECTROLYTIC, 16V 10UF M
CS33	24794100	ELECTROLYTIC, 16V 10UF M
CS34	24105331	CERAMIC CHIP, 50V CH 330PF J
CS35	24797229	ELECTROLYTIC, 50V 2.2UF M
CS36	24797229	ELECTROLYTIC, 50V 2.2UF M
CS51	24797229	ELECTROLYTIC, 50V 2.2UF M
CS52	24797229	ELECTROLYTIC, 50V 2.2UF M
CS53	24797229	ELECTROLYTIC, 50V 2.2UF M
CS54	24797229	ELECTROLYTIC, 50V 2.2UF M
CS55	24105331	CERAMIC CHIP, 50V CH 330PF J
CS56	24105331	CERAMIC CHIP, 50V CH 330PF J
CS57	24105331	CERAMIC CHIP, 50V CH 330PF J
CS58	24105331	CERAMIC CHIP, 50V CH 330PF J
CS60	24503041	PLASTIC FILM , 63V 0.1UF J
CS115	24797010	ELECTROLYTIC, 50V 1UF M
CS116	24797010	ELECTROLYTIC, 50V 1UF M
CS118	24795470	ELECTROLYTIC, 25V 47UF M
CS119	24797010	ELECTROLYTIC, 50V 1UF M
CS120	24797010	ELECTROLYTIC, 50V 1UF M
CS121	24797010	ELECTROLYTIC, 50V 1UF M
CS122	24797101	ELECTROLYTIC, 50V 100UF M
CS123	24797470	ELECTROLYTIC, 50V 47UF M
CS124	24797229	ELECTROLYTIC, 50V 2.2UF M
CS125	24590103	PLASTIC FILM, 50V 0.01MF J
CS652	24794220	ELECTROLYTIC, 16V 22UF M
CS676	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV01	24794100	ELECTROLYTIC, 16V 10UF M
CV02	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV04	24794100	ELECTROLYTIC, 16V 10UF M
CV05	24794100	ELECTROLYTIC, 16V 10UF M
CV07	24794100	ELECTROLYTIC, 16V 10UF M
CV08	24763102	ELECTROLYTIC, 16V 1000UF M
CV10	24232103	CERAMIC DISC, 50V F 10000PF Z
CV11	24232103	CERAMIC DISC, 50V F 10000PF Z
CV12	24794100	ELECTROLYTIC, 16V 10UF M
CV18	24794100	ELECTROLYTIC, 16V 10UF M
CV21	24794100	ELECTROLYTIC, 16V 10UF M
CV22	24794100	ELECTROLYTIC, 16V 10UF M
CV23	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV27	24762471	ELECTROLYTIC, 10V 470UF M
CV29	24794101	ELECTROLYTIC, 16V 100UF M
CV30	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV75	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV90	24794470	ELECTORLYTIC, 16V 47UF M
CV91	24794470	ELECTORLYTIC, 16V 47UF M
CV92	24794470	ELECTORLYTIC, 16V 47UF M
CV100	24794100	ELECTROLYTIC, 16V 10UF M
CV120	24794100	ELECTROLYTIC, 16V 10UF M
CV246	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV247	24794470	ELECTORLYTIC, 16V 47UF M
CV248	24794470	ELECTORLYTIC, 16V 47UF M
CV262	24794470	ELECTORLYTIC, 16V 47UF M

Location No.	Parts No.	Description
CV266	24794470	ELECTORLYTIC, 16V 47UF M
CV269	24794470	ELECTORLYTIC, 16V 47UF M
CV272	24794470	ELECTORLYTIC, 16V 47UF M
CV275	24794470	ELECTORLYTIC, 16V 47UF M
CW08	24794100	ELECTROLYTIC, 16V 10UF M
CW09	24109103	CERAMIC CHIP, 50V B 0.01UF K
CY23	24797100	ELECTROLYTIC, 50V 10UF M
RESISTORS		
R101	24553183	OXIDE METAL FILM, 1W 18K OHM J
R119	24000445	CHIP JUMPER, 1608TYPE
R150	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R151	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R152	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R171	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R172	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R173	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R174	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R217	24366103	CARBON FILM, 1/6W 10K OHM J
R218	24367303	CARBON FILM, 1/6W 30K OHM G
R219	24366223	CARBON FILM, 1/6W 22K OHM J
R227	24367273	CARBON FILM, 1/6W 27K OHM G
R228	24367682	CARBON FILM, 1/6W 6.8K OHM G
R245	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R303	24321109	OXIDE METAL FILM, 1/2W 1 OHM J
R305	24323688	OXIDE METAL FILM, 2W 0.68 OHM J
R306	24366473	CARBON FILM, 1/6W 47K OHM J
R309	24366154	CARBON FILM, 1/6W 150K OHM J
R310	24366102	CARBON FILM, 1/6W 1K OHM J
R312	24366153	CARBON FILM, 1/6W 15K OHM J
R313	24366153	CARBON FILM, 1/6W 15K OHM J
R317	24366472	CARBON FILM, 1/6W 4.7K OHM J
R318	24366101	CARBON FILM, 1/6W 100 OHM J
R319	24366101	CARBON FILM, 1/6W 100 OHM J
R320	24366101	CARBON FILM, 1/6W 100 OHM J
R321	24366274	CARBON FILM, 1/6W 270K OHM J
R322	24366394	CARBON FILM, 1/6W 390K OHM J
R323	24366274	CARBON FILM, 1/6W 270K OHM J
R324	24366224	CARBON FILM, 1/6W 220K OHM J
R326	24366153	CARBON FILM, 1/6W 15K OHM J
R328	24366202	CARBON FILM, 1/6W 2K OHM J
R329	24366153	CARBON FILM, 1/6W 15K OHM J
R330	24366102	CARBON FILM, 1/6W 1K OHM J
R331	24366184	CARBON FILM, 1/6W 18OK OHM J
R336	24383151	OXIDE METAL FILM, 2W 150 OHM J
R342	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R344	24382821	OXIDE METAL FILM, 1W 82 OHM J
R354	24366431	CARBON FILM, 1/6W 430 OHM J
R357	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R358	24383181	OXIDE METAL FILM, 2W 180 OHM J
R359	24366103	CARBON FILM, 1/6W 10K OHM J
R360	24366103	CARBON FILM, 1/6W 10K OHM J
R361	24366102	CARBON FILM, 1/6W 1K OHM J
R362	24366103	CARBON FILM, 1/6W 10K OHM J
R363	24366103	CARBON FILM, 1/6W 10K OHM J
R364	24366332	CARBON FILM, 1/6W 3.3K OHM J
R365	24366681	CARBON FILM, 1/6W 680 OHM J
R366	24366471	CARBON FILM, 1/6W 470 OHM J
R367	24366472	CARBON FILM, 1/6W 4.7K OHM J
R368	24366333	CARBON FILM, 1/6W 33K OHM J
R369	24366433	CARBON FILM, 1/6W 43K OHM J
R371	24366562	CARBON FILM, 1/6W 5.6K OHM J
R372	24366392	CARBON FILM, 1/6W 3.9K OHM J
R373	24366182	CARBON FILM, 1/6W 1.8K OHM J
R374	24366473	CARBON FILM, 1/6W 47K OHM J

Location No.	Parts No.	Description
R379	24382103	OXIDE METAL FILM, 1W 10K OHM J
R380	24946226	CARBON CONPOSITI0N, 1/2W 22M OHM K
R381	24366822	CARBON FILM, 1/6W 8.2K OHM J
R392	24552102	OXIDE METAL FILM, 1/2W 1K OHM J
R394	24366102	CARBON FILM, 1/6W 1K OHM J
R395	24366103	CARBON FILM, 1/6W 10K OHM J
R396	24366103	CARBON FILM, 1/6W 10K OHM J
R397	24366103	CARBON FILM, 1/6W 10K OHM J
R398	24366184	CARBON FILM, 1/6W 18OK OHM J
R400	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R405	24553682	OXIDE METAL FILM, 1W 6.8K OHM J
R411	24366180	CARBON FILM, 1/6W 18 OHM J
R412	24323228	OXIDE METAL FILM, 2W 0.22 OHM J
R415	24383271	OXIDE METAL FILM, 2W 270 OHM J
R416	24383820	OXIDE FILM 2W 82. J
R417	24366182	CARBON FILM, 1/6W 1.8K OHM J
R418	24366182	CARBON FILM, 1/6W 1.8K OHM J
R422	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R423	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R424	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R424	24321229	OXIDE METAL FILM, 1/2W 2.2 OHM J
R425	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R426	24381363	OXIDE FILM 1/2W 36K J
R433	24366101	CARBON FILM, 1/6W 100 OHM J
R435	24327224	METAL FILM, 1/4W 220K OHM F
R438	24552152	OXIDE METAL FILM, 1/2W 1.5K OHM J
R439	24381100	OXIDE METAL FILM, 1/2W 10 OHM J
R441	24383181	OXIDE METAL FILM, 2W 180 OHM J
R447	24382473	OXIDE METAL FILM, 1W 47K OHM J
⚠ R448	24321338	OXIDE METAL FILM, 1/2W 0.33 OHM J
R452	24061546	VARIABLE, METAL FILM, 1W 100 OHM M
R461	24366183	CARBON FILM, 1/6W 18K OHM J
R462	24367333	CARBON FILM, 1/6W 33K OHM G
R463	24323479	METAL FILM, 2W 4.7 OHM J
⚠ R465	24366331	CARBON FILM, 1/6W 330 OHM J
⚠ R467	24000372	METAL FILM, 1/4W 3.9K OHM F
⚠ R468	24000632	METAL FILM, 1/4W 9.1K OHM F
⚠ R470	24323518	OXIDE METAL FILM, 2W 0.51 OHM J
R471	24381301	OXIDE METAL FILM, 1/2W 300 OHM J
R472	24554270	OXIDE METAL FILM, 2W 27 OHM J
R473	24000221	METAL FILM, 1/4W 20K OHM F
R474	24366822	CARBON FILM, 1/6W 8.2K OHM J
R475	24366912	CARBON FILM, 1/6W 9.1K OHM J
R476	24000221	METAL FILM, 1/4W 20K OHM F
R477	24366102	CARBON FILM, 1/6W 1K OHM J
R478	24338688	OXIDE METAL FILM, 1W 0.68 OHM J
R479	24381131	OXIDE METAL FILM, 1/2W 130 OHM J
R480	24366472	CARBON FILM, 1/6W 4.7K OHM J
R481	24366103	CARBON FILM, 1/6W 10K OHM J
R482	24366182	CARBON FILM, 1/6W 1.8K OHM J
R483	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R484	24366223	CARBON FILM, 1/6W 22K OHM J
R485	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R485	24366223	CARBON FILM, 1/6W 22K OHM J
R486	24011622	CHIP, METAL FILM, 1/20W 6.2K OHM J
R487	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R488	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R491	24366122	CARBON FILM, 1/6W 1.2K OHM J
R492	24366122	CARBON FILM, 1/6W 1.2K OHM J
R493	24366123	CARBON FILM, 1/6W 12K OHM J
R494	24366184	CARBON FILM, 1/6W 18OK OHM J
R496	24382104	OXIDE METAL FILM, 1W 100K OHM J
R498	24366184	CARBON FILM, 1/6W 18OK OHM J
R499	24322109	OXIDE METAL FILM, 1W 1 OHM J
R513	24011104	CHIP, METAL FILM, 1/20W 100K OHM J

Location No.	Parts No.	Description
R514	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R515	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R525	24011752	CHIP, METAL FILM, 1/20W 7.5K OHM J
R526	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R543	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
R548	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
R552	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R553	24011680	CHIP, METAL FILM, 1/20W 68 OHM J
R560	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R561	24552271	OXIDE METAL FILM, 1/2W 270 OHM J
R562	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R563	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R564	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R565	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R566	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R567	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R568	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R572	24000445	CHIP JUMPER, 1608TYPE
R573	24000445	CHIP JUMPER, 1608TYPE
R601	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R602	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R610	24871222	CHIP, METAL FILM, 1/8W 2.2K OHM J
R611	24871222	CHIP, METAL FILM, 1/8W 2.2K OHM J
R613	24871222	CHIP, METAL FILM, 1/8W 2.2K OHM J
R661	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R662	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R663	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J (36HFX72)
R663	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J (36HF72)
R664	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J (36HFX72)
R664	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J (36HF72)
R666	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J (36HFX72)
R667	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J (36HFX72)
R668	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R669	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R674	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R675	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R676	24366229	CARBON FILM, 1/6W 2.2 OHM J
R677	24366229	CARBON FILM, 1/6W 2.2 OHM J
R680	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R681	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R682	24011104	CHIP, METAL FILM, 1/20W 100K OHM J (36HFX72)
R683	24011333	CHIP, METAL FILM, 1/20W 33K OHM J (36HFX72)
R686	24366229	CARBON FILM, 1/6W 2.2 OHM J (36HFX72)
R687	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R690	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J (36HF72)
R691	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J (36HF72)
R693	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R698	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R699	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R702	24552221	OXIDE METAL FILM, 1/2W 220 OHM J
R709	24366563	CARBON FILM, 1/6W 56K OHM J
R713	24366393	CARBON FILM, 1/6W 39K OHM J
R715	24366273	CARBON FILM, 1/6W 27K OHM J
R716	24366273	CARBON FILM, 1/6W 27K OHM J
R717	24366333	CARBON FILM, 1/6W 33K OHM J

Location No.	Parts No.	Description
R718	24366222	CARBON FILM, 1/6W 2.2K OHM J
R719	24366101	CARBON FILM, 1/6W 100 OHM J
R720	24366102	CARBON FILM, 1/6W 1K OHM J
R721	24366101	CARBON FILM, 1/6W 100 OHM J
R722	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R723	24366101	CARBON FILM, 1/6W 100 OHM J
R724	24366151	CARBON FILM, 1/6W 150 OHM J
R725	24366182	CARBON FILM, 1/6W 1.8K OHM J
R730	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R731	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R732	24366330	CARBON FILM, 1/6W 33 OHM J
R733	24366683	CARBON FILM, 1/6W 68K OHM J
R734	24366330	CARBON FILM, 1/6W 33 OHM J
R735	24366683	CARBON FILM, 1/6W 68K OHM J
R736	24553470	METAL OXIDE FILM B 1W 47 J
R737	24366681	CARBON FILM, 1/6W 680 OHM J
R738	24366102	CARBON FILM, 1/6W 1K OHM J
R739	24366681	CARBON FILM, 1/6W 680 OHM J
R740	24553470	METAL OXIDE FILM B 1W 47 J
R741	24322229	OXIDE METAL FILM, 1W 2.2 OHM J
R742	24322229	OXIDE METAL FILM, 1W 2.2 OHM J
R743	24554181	OXIDE METAL FILM, 2W 180 OHM J
R744	24366122	CARBON FILM, 1/6W 1.2K OHM J
R745	24366122	CARBON FILM, 1/6W 1.2K OHM J
⚠ R808	24019493	THERMISTOR, PTC THERMISTOR AC140V 1R5 M
R810	24045007	CEMENT 20W 1.2 J
R818	24366102	CARBON FILM, 1/6W 1K OHM J
R819	24366103	CARBON FILM, 1/6W 10K OHM J
R834	24366102	CARBON FILM, 1/6W 1K OHM J
R835	24366820	CARBON FILM, 1/6W 82 OHM J
R847	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R848	24011820	METAL FILM CHIP 1/20W 82 J
R849	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R861	24382153	OXIDE METAL FILM, 1W 15K OHM J
R862	24552330	OXIDE METAL FILM, 1/2W 33 OHM J
R864	24552102	OXIDE METAL FILM, 1/2W 1K OHM J
R865	24552221	OXIDE METAL FILM, 1/2W 220 OHM J
R867	24000639	METAL FILM, 1/4W 22K OHM F
R868	24552560	OXIDE METAL FILM, 1/2W 56 OHM J
R870	24381151	OXIDE METAL FILM, 1/2W 150 OHM J
R871	24381101	OXIDE METAL FILM, 1/2W 100 OHM J
R872	24382563	OXIDE METAL FILM, 1W 56K OHM J
R883	24381682	OXIDE METAL FILM, 1/2W 6.8K OHM J
R884	24366102	CARBON FILM, 1/6W 1K OHM J
R891	24366152	CARBON FILM, 1/6W 1.5K OHM J
⚠ R899	24010001	CARBON FILM, 1/2W 3.9M OHM J
R901	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R902	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R903	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R904	24366472	CARBON FILM, 1/6W 4.7K OHM J
R905	24366150	CARBON FILM, 1/6W 15 OHM J
R906	24366332	CARBON FILM, 1/6W 3.3K OHM J
R912	24366102	CARBON FILM, 1/6W 1K OHM J
R914	24366151	CARBON FILM, 1/6W 150 OHM J
R915	24366470	CARBON FILM, 1/6W 47 OHM J
R916	24366180	CARBON FILM, 1/6W 18 OHM J
R917	24366431	CARBON FILM, 1/6W 430 OHM J
R918	24366240	CARBON FILM, 1/6W 24 OHM J
R919	24366102	CARBON FILM, 1/6W 1K OHM J
R920	24000883	FUSIBLE, 1W 3.6 OHM J
R921	24366151	CARBON FILM, 1/6W 150 OHM J
R922	24366470	CARBON FILM, 1/6W 47 OHM J
R924	24366220	CARBON FILM, 1/6W 22 OHM J
R925	24366431	CARBON FILM, 1/6W 430 OHM J

Location No.	Parts No.	Description
R926	24366102	CARBON FILM, 1/6W 1K OHM J
R928	24366151	CARBON FILM, 1/6W 150 OHM J
R929	24366470	CARBON FILM, 1/6W 47 OHM J
R930	24366180	CARBON FILM, 1/6W 18 OHM J
R932	24366332	CARBON FILM, 1/6W 3.3K OHM J
R933	24366750	CARBON FILM, 1/6W 75 OHM J
R934	24366391	CARBON FILM, 1/6W 390 OHM J
R935	24366122	CARBON FILM, 1/6W 1.2K OHM J
R936	24366750	CARBON FILM, 1/6W 75 OHM J
R937	24366431	CARBON FILM, 1/6W 430 OHM J
R939	24366100	CARBON FILM, 1/6W 10 OHM J
R942	24366392	CARBON FILM, 1/6W 3.9K OHM J
R943	24366392	CARBON FILM, 1/6W 3.9K OHM J
R944	24366392	CARBON FILM, 1/6W 3.9K OHM J
R945	24366180	CARBON FILM, 1/6W 18 OHM J
R946	24366180	CARBON FILM, 1/6W 18 OHM J
R947	24366221	CARBON FILM, 1/6W 220 OHM J
R948	24366272	CARBON FILM, 1/6W 2.7K OHM J
R949	24366391	CARBON FILM, 1/6W 390 OHM J
R952	24366622	CARBON FILM, 1/6W 6.2K OHM J
R953	24366622	CARBON FILM, 1/6W 6.2K OHM J
R954	24366622	CARBON FILM, 1/6W 6.2K OHM J
R960	24383153	OXIDE METAL FILM, 2W 15K OHM J
R961	24383153	OXIDE METAL FILM, 2W 15K OHM J
R962	24383153	OXIDE METAL FILM, 2W 15K OHM J
R963	24383153	OXIDE METAL FILM, 2W 15K OHM J
R964	24383153	OXIDE METAL FILM, 2W 15K OHM J
R965	24383153	OXIDE METAL FILM, 2W 15K OHM J
R967	24366682	CARBON FILM, 1/6W 6.8K OHM J
R968	24366272	CARBON FILM, 1/6W 2.7K OHM J
R970	24366472	CARBON FILM, 1/6W 4.7K OHM J
R971	24366332	CARBON FILM, 1/6W 3.3K OHM J
R972	24366331	CARBON FILM, 1/6W 330 OHM J
R973	24366332	CARBON FILM, 1/6W 3.3K OHM J
R974	24366332	CARBON FILM, 1/6W 3.3K OHM J
R975	24366331	CARBON FILM, 1/6W 330 OHM J
R976	24366331	CARBON FILM, 1/6W 330 OHM J
R977	24366561	CARBON FILM, 1/6W 560 OHM J
R978	24383153	OXIDE METAL FILM, 2W 15K OHM J
R979	24383153	OXIDE METAL FILM, 2W 15K OHM J
R980	24366471	CARBON FILM, 1/6W 470 OHM J
R981	24366471	CARBON FILM, 1/6W 470 OHM J
R982	24366682	CARBON FILM, 1/6W 6.8K OHM J
R983	24366222	CARBON FILM, 1/6W 2.2K OHM J
R984	24367821	CARBON FILM, 1/6W 820 OHM G
R985	24367471	CARBON FILM, 1/6W 470 OHM G
R986	24367681	CARBON FILM, 1/6W 680 OHM G
R987	24367681	CARBON FILM, 1/6W 680 OHM G
R988	24367472	CARBON FILM, 1/6W 4.7K OHM G
R989	24367472	CARBON FILM, 1/6W 4.7K OHM G
R990	24366561	CARBON FILM, 1/6W 560 OHM J
R991	24367391	CARBON FILM, 1/6W 390 OHM G
R992	24366150	CARBON FILM, 1/6W 15 OHM J
R993	24383153	OXIDE METAL FILM, 2W 15K OHM J
R994	24383153	OXIDE METAL FILM, 2W 15K OHM J
R995	24383153	OXIDE METAL FILM, 2W 15K OHM J
R996	24383153	OXIDE METAL FILM, 2W 15K OHM J
R997	24366272	CARBON FILM, 1/6W 2.7K OHM J
R998	24366102	CARBON FILM, 1/6W 1K OHM J
R999	24366102	CARBON FILM, 1/6W 1K OHM J
R2020	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2060	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R2061	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2105	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2106	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

Location No.	Parts No.	Description
R2107	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2108	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R2109	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R2110	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R2146	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2147	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2148	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2149	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2150	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2151	24871102	CHIP, METAL FILM, 1/8W 1K OHM J
R2152	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2153	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2154	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R2155	24000445	CHIP JUMPER, 1608TYPE
R2156	24000445	CHIP JUMPER, 1608TYPE
R2157	24000445	CHIP JUMPER, 1608TYPE
R3105	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R3106	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R3450	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R3451	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R3452	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R3453	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R3454	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4201	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4202	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4203	24011561	CHIP, METAL FILM, 1/20W 560 OHM J
R4204	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R4228	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R4310	24366183	CARBON FILM, 1/6W 18K OHM J
R4311	24366563	CARBON FILM, 1/6W 56K OHM J
R4385	24366822	CARBON FILM, 1/6W 8.2K OHM J
R4386	24366331	CARBON FILM, 1/6W 330 OHM J
R4406	24011622	CHIP, METAL FILM, 1/20W 6.2K OHM J
R4407	24011361	CHIP, METAL FILM, 1/20W 360 OHM J
R4410	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4416	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4417	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4422	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4425	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R4460	24366102	CARBON FILM, 1/6W 1K OHM J
R4461	24366102	CARBON FILM, 1/6W 1K OHM J
R4462	24366133	CARBON FILM, 1/6W 13K OHM J
R4463	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4463	24366682	CARBON FILM, 1/6W 6.8K OHM J
R4464	24011302	CHIP, METAL FILM, 1/20W 3K OHM J
R4466	24366103	CARBON FILM, 1/6W 10K OHM J
R4467	24366103	CARBON FILM, 1/6W 10K OHM J
R4468	24366562	CARBON FILM, 1/6W 5.6K OHM J
R4469	24366102	CARBON FILM, 1/6W 1K OHM J
R4470	24366393	CARBON FILM, 1/6W 39K OHM J
R4471	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R4472	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4472	24366224	CARBON FILM, 1/6W 220K OHM J
R4560	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4561	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4562	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4761	24366102	CARBON FILM, 1/6W 1K OHM J
R4762	24366332	CARBON FILM, 1/6W 3.3K OHM J
R4763	24366103	CARBON FILM, 1/6W 10K OHM J
R4765	24366221	CARBON FILM, 1/6W 220 OHM J
R4766	24366182	CARBON FILM, 1/6W 1.8K OHM J
R4768	24366822	CARBON FILM, 1/6W 8.2K OHM J
R4771	24366103	CARBON FILM, 1/6W 10K OHM J
R4816	24366471	CARBON FILM, 1/6W 470 OHM J
R4818	24366681	CARBON FILM, 1/6W 680 OHM J

Location No.	Parts No.	Description
R4819	24366102	CARBON FILM, 1/6W 1K OHM J
R4820	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R5020	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R5030	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R9701	24366821	CARBON FILM, 1/6W 820 OHM J
RA01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA02	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA05	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA06	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA07	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA12	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA15	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA16	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA21	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA22	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA23	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA26	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA28	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA30	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA32	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA33	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA35	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RA36	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RA37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA38	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA39	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA40	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA41	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RA42	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RA43	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA44	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA45	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA46	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA49	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA50	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA51	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA52	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA54	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RA55	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA59	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA60	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA71	24366273	CARBON FILM, 1/6W 27K OHM J
RA72	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RA72	24366153	CARBON FILM, 1/6W 15K OHM J
RA73	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RA73	24366822	CARBON FILM, 1/6W 8.2K OHM J
RA74	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RA75	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RA76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA76	24366822	CARBON FILM, 1/6W 8.2K OHM J
RA77	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA77	24366153	CARBON FILM, 1/6W 15K OHM J
RA78	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA78	24366273	CARBON FILM, 1/6W 27K OHM J
RA79	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA80	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA81	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RA021	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA031	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA116	24011103	CHIP, METAL FILM, 1/20W 10K OHM J

Location No.	Parts No.	Description
RA161	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA191	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA192	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA195	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA196	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA197	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA198	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA199	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA210	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA211	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA212	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA221	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RA361	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA401	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA431	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA491	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RA703	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA705	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA708	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB03	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RB05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB11	24366271	CARBON FILM, 1/6W 270 OHM J
RB12	24366103	CARBON FILM, 1/6W 10K OHM J
RB13	24366470	CARBON FILM, 1/6W 47 OHM J
RB14	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RB15	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RB16	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RB17	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RB28	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB29	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RB30	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RB30	24366103	CARBON FILM, 1/6W 10K OHM J
RB31	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB32	24011274	CHIP, METAL FILM, 1/20W 270K OHM J
RB33	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB34	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB35	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB37	24011302	CHIP, METAL FILM, 1/20W 3K OHM J
RB38	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB39	24011183	CHIP, METAL FILM, 1/20W 18K OHM J
RB41	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RB41	24366123	CARBON FILM, 1/6W 12K OHM J
RB42	24366153	CARBON FILM, 1/6W 15K OHM J
RB46	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB49	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB90	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB91	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB92	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB93	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB94	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB95	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB96	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB97	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB98	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB031	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RB032	24011330	CHIP, METAL FILM, 1/20W 33 OHM J
RB033	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB051	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB052	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RB512	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RB551	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB552	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB553	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RD01	24366101	CARBON FILM, 1/6W 100 OHM J (36HFX72)
RD01	24366102	CARBON FILM, 1/6W 1K OHM J (36HF72)

Location No.	Parts No.	Description
RD02	24366105	CARBON FILM, 1/6W 1M OHM J (36HFX72)
RD02	24366223	CARBON FILM, 1/6W 22K OHM J (36HF72)
RD03	24366101	CARBON FILM, 1/6W 100 OHM J
RD04	24366101	CARBON FILM, 1/6W 100 OHM J
RD05	24366101	CARBON FILM, 1/6W 100 OHM J (36HFX72)
RD06	24366472	CARBON FILM, 1/6W 4.7K OHM J
RD07	24366332	CARBON FILM, 1/6W 3.3K OHM J
RD09	24366104	CARBON FILM, 1/6W 100K OHM J
RD10	24366472	CARBON FILM, 1/6W 4.7K OHM J (36HF72)
RD11	24366104	CARBON FILM, 1/6W 100K OHM J (36HFX72)
RD11	24366332	CARBON FILM, 1/6W 3.3K OHM J (36HF72)
RD12	24366101	CARBON FILM, 1/6W 100 OHM J
RD13	24366104	CARBON FILM, 1/6W 100K OHM J (36HFX72)
RD13	24366104	CARBON FILM, 1/6W 100K OHM J (36HF72)
RD14	24366221	CARBON FILM, 1/6W 220 OHM J
RD15	24366104	CARBON FILM, 1/6W 100K OHM J (36HFX72)
RD15	24366104	CARBON FILM, 1/6W 100K OHM J (36HF72)
RD16	24366123	CARBON FILM, 1/6W 12K OHM J
RD17	24366101	CARBON FILM, 1/6W 100 OHM J (36HFX72)
RD17	24366101	CARBON FILM, 1/6W 100 OHM J (36HF72)
RD18	24366105	CARBON FILM, 1/6W 1M OHM J (36HFX72)
RD18	24366223	CARBON FILM, 1/6W 22K OHM J (36HF72)
RD19	24366101	CARBON FILM, 1/6W 100 OHM J (36HFX72)
RD19	24366102	CARBON FILM, 1/6W 1K OHM J (36HF72)
RD21	24366332	CARBON FILM, 1/6W 3.3K OHM J (36HFX72)
RD41	24366123	CARBON FILM, 1/6W 12K OHM J (36HFX72)
RD41	24366102	CARBON FILM, 1/6W 1K OHM J (36HF72)
RD42	24366333	CARBON FILM, 1/6W 33K OHM J (36HFX72)
RD42	24366432	CARBON FILM, 1/6W 4.3K OHM J (36HF72)
RD43	24366272	CARBON FILM, 1/6W 2.7K OHM J (36HFX72)
RD43	24366114	CARBON FILM, 1/6W 110K OHM J (36HF72)
RD44	24366123	CARBON FILM, 1/6W 12K OHM J (36HFX72)
RD44	24366132	CARBON FILM, 1/6W 1.3K OHM J (36HF72)
RD45	24366333	CARBON FILM, 1/6W 33K OHM J (36HFX72)
RD45	24366473	CARBON FILM, 1/6W 47K OHM J (36HF72)
RD46	24366272	CARBON FILM, 1/6W 2.7K OHM J (36HFX72)
RD46	24366513	CARBON FILM, 1/6W 51K OHM J (36HF72)
RD47	24366104	CARBON FILM, 1/6W 100K OHM J (36HFX72)
RD47	24366392	CARBON FILM, 1/6W 3.9K OHM J (36HF72)
RD48	24366103	CARBON FILM, 1/6W 10K OHM J (36HFX72)
RD49	24366562	CARBON FILM, 1/6W 5.6K OHM J (36HFX72)
RD60	24366682	CARBON FILM, 1/6W 6.8K OHM J (36HFX72)
RD61	24366682	CARBON FILM, 1/6W 6.8K OHM J (36HFX72)
RD62	24366109	CARBON FILM, 1/6W 1 OHM J (36HFX72)
RD63	24366103	CARBON FILM, 1/6W 10K OHM J (36HF72)
RD64	24366103	CARBON FILM, 1/6W 10K OHM J (36HF72)
RD65	24366122	CARBON FILM, 1/6W 1.2K OHM J (36HF72)
RD66	24366821	CARBON FILM, 1/6W 820 OHM J (36HF72)
RD67	24366152	CARBON FILM, 1/6W 1.5K OHM J (36HF72)
RD68	24366681	CARBON FILM, 1/6W 680 OHM J (36HF72)
RD69	24366101	CARBON FILM, 1/6W 100 OHM J (36HF72)
RD70	24366105	CARBON FILM, 1/6W 1M OHM J (36HF72)
RD71	24366101	CARBON FILM, 1/6W 100 OHM J (36HF72)
RD72	24366101	CARBON FILM, 1/6W 100 OHM J (36HFX72)
RD72	24366105	CARBON FILM, 1/6W 1M OHM J (36HF72)
RD73	24366101	CARBON FILM, 1/6W 100 OHM J (36HFX72)
RD74	24366101	CARBON FILM, 1/6W 100 OHM J (36HFX72)
RD75	24366473	CARBON FILM, 1/6W 47K OHM J (36HFX72)
RD76	24366122	CARBON FILM, 1/6W 1.2K OHM J (36HFX72)
RD77	24366473	CARBON FILM, 1/6W 47K OHM J (36HFX72)
RD78	24366122	CARBON FILM, 1/6W 1.2K OHM J (36HFX72)
RD79	24366123	CARBON FILM, 1/6W 12K OHM J (36HFX72)
RD81	24366123	CARBON FILM, 1/6W 12K OHM J (36HFX72)
RD83	24366103	CARBON FILM, 1/6W 10K OHM J (36HFX72)
RD85	24366223	CARBON FILM, 1/6W 22K OHM J (36HFX72)

Location No.	Parts No.	Description
RD86	24366223	CARBON FILM, 1/6W 22K OHM J (36HFX72)
RD87	24366223	CARBON FILM, 1/6W 22K OHM J (36HFX72)
RD88	24366223	CARBON FILM, 1/6W 22K OHM J (36HFX72)
RJ01	24366103	CARBON FILM, 1/6W 10K OHM J
RJ02	24366102	CARBON FILM, 1/6W 1K OHM J
RJ04	24366102	CARBON FILM, 1/6W 1K OHM J
RJ05	24323479	METAL FILM, 2W 4.7 OHM J
RJ06	24366103	CARBON FILM, 1/6W 10K OHM J
RJ15	24000445	CHIP JUMPER, 1608TYPE
RJ16	24000445	CHIP JUMPER, 1608TYPE
RJ24	24000445	CHIP JUMPER, 1608TYPE
RJ40	24000445	CHIP JUMPER, 1608TYPE
RJ50	24000445	CHIP JUMPER, 1608TYPE
RJ51	24000445	CHIP JUMPER, 1608TYPE
RM16	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RM18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RM79	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RM80	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RM82	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RM83	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RR31	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR90	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
RR91	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
RR92	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RR93	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RR94	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR95	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS02	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RS04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS06	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS07	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS08	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS09	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS12	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS21	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS22	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS25	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS26	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS27	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RS28	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RS29	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS30	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS31	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS32	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS33	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS34	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS35	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS36	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS40	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS42	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS48	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS49	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS51	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS52	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS53	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS54	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS101	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS102	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS103	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS104	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS105	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RS107	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS108	24011473	CHIP, METAL FILM, 1/20W 47K OHM J

Location No.	Parts No.	Description
RS109	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RS110	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RS112	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS113	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RS114	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RS116	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS120	24366271	CARBON FILM, 1/6W 270 OHM J
RS121	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS122	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS123	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RS124	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS125	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J (36HFX72)
RS125	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J (36HF72)
RS651	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS652	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS665	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS671	24000445	CHIP JUMPER, 1608TYPE
RS672	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RS673	24000445	CHIP JUMPER, 1608TYPE
RS674	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RS675	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS676	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS683	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS685	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS686	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS687	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV01	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RV03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV11	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RV12	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RV13	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RV15	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV17	24366750	CARBON FILM, 1/6W 75 OHM J
RV18	24366750	CARBON FILM, 1/6W 75 OHM J
RV19	24366332	CARBON FILM, 1/6W 3.3K OHM J
RV24	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV25	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV26	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV30	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RV31	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RV56	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV62	24871331	CHIP, METAL FILM, 1/8W 330 OHM J
RV63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV64	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV65	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV67	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV72	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RV74	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV78	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV79	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV83	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RV84	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV89	24011620	METAL FILM CHIP 1/20W 62 J
RV90	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV91	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RV92	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV93	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV94	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RV95	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV96	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV97	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RV98	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

Location No.	Parts No.	Description
RV111	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RV117	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV118	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV119	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV120	24366750	CARBON FILM, 1/6W 75 OHM J
RV121	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RV131	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RV178	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RV179	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RV180	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RV181	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV182	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV183	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV184	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RV185	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RV186	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RV301	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV319	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RV700	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RV850	24871331	CHIP, METAL FILM, 1/8W 330 OHM J
RV870	24871331	CHIP, METAL FILM, 1/8W 330 OHM J
RW10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RW30	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RX11	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RX12	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
RY83	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RY84	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
COILS & TRANSFORMERS		
L101	23289846	COIL, PEAKING, TRF4101AT
L103	23289840	COIL, PEAKING, TRF4100AT
L104	23103852	COIL, FILTER, TEM2028AH
L105	23103852	COIL, FILTER, TEM2028AH
L111	23289846	COIL, PEAKING, TRF4101AT
L113	23289840	COIL, PEAKING, TRF4100AT
L121	23238562	COIL, PEAKING, TRF4109AJ
L122	23238562	COIL, PEAKING, TRF4109AJ
L301	23103859	COIL, CHOKE, TEM2011
L302	23237975	COIL, PEAKING, TRF4101AC
L400	23280022	COIL, PEAKING, TRF4101AZ
L401	23280022	COIL, PEAKING, TRF4101AZ
L402	23103859	COIL, CHOKE, TEM2011
L404	23103880	COIL, CHOKE, TEM2011Y
L409	23248191	COIL, CHOKE, TLN3351AD
L410	23248183	COIL, CHOKE, TLN3343AD
⚠ L441	23233055	COIL, LIN, TLN2219AG
L442	23248282	COIL, CHOKE 17X29H 68MMH, TLN3458AH
⚠ L447	23248224	COIL, CHOHE, TLN3435AH
L460	23103880	COIL, CHOKE, TEM2011Y
⚠ L461	23248115	COIL, CHOKE, TLN3367D
L463	23103880	COIL, CHOKE, TEM2011Y
L464	23103880	COIL, CHOKE, TEM2011Y
L491	23228784	TRANSFORMER, DPC 16.4UH, TPC1015AH
L499	23248026	COIL, CHOKE, TLN3269D
L501	23289470	COIL, PEAKING, TRF4470AF
L503	23289470	COIL, PEAKING, TRF4470AF
L702	23261974	COIL, FERRITE BEAD, HC5-035
L704	23103859	COIL, CHOKE, TEM2011
L705	23103859	COIL, CHOKE, TEM2011
L706	23237987	COIL, PEAKING, TRF4100AC
L805	23248227	COIL, CHOKE, TLN3481AD
L806	23248227	COIL, CHOKE, TLN3481AD
L833	23248320	CHOKE 15X23H 100MMH 2.5A
L834	23280018	COIL, PEAKING, TRF4220AZ
L835	23248157	COIL, CHOKE, TLN3433AD

Location No.	Parts No.	Description
L836	23248235	COIL, CHOKE 12X18H 22MMH 4.2A, TLN3462AF
L837	23280018	COIL, PEAKING, TRF4220AZ
L861	23103941	COIL, CHOKE, TEM2011
L862	23103880	COIL, CHOKE, TEM2011Y
L883	23103880	COIL, CHOKE, TEM2011Y
L884	23103880	COIL, CHOKE, TEM2011Y
L885	23248073	COIL, CHOKE, TLN3299D
L886	23103880	COIL, CHOKE, TEM2011Y
L887	23103880	COIL, CHOKE, TEM2011Y
L888	23248087	COIL, CHOKE, TLN3312D
L889	23248087	COIL, CHOKE, TLN3312D
L891	23103880	COIL, CHOKE, TEM2011Y
L892	23103880	COIL, CHOKE, TEM2011Y
L893	23248321	CHOKE 15X23H 22MMH 4.2A
L894	23248321	CHOKE 15X23H 22MMH 4.2A
L895	23103880	COIL, CHOKE, TEM2011Y
L896	23103880	COIL, CHOKE, TEM2011Y
L897	23280016	COIL, PEAKING, TRF4100AZ
⚠ L901	23200447	COIL, DG1.10CU T-2LOOP, TSB-2407AK
L902	23237975	COIL, PEAKING, TRF4101AC
L903	23237975	COIL, PEAKING, TRF4101AC
L904	23237975	COIL, PEAKING, TRF4101AC
L905	23238712	COIL, PEAKING, TRF4150AJ
L906	23238712	COIL, PEAKING, TRF4150AJ
L907	23238712	COIL, PEAKING, TRF4150AJ
L908	23289840	COIL, PEAKING, TRF4100AT
L910	23237999	COIL, PEAKING, TRF4109AC
L911	23289840	COIL, PEAKING, TRF4100AT
L4043	23103880	COIL, CHOKE, TEM2011Y
L5040	23103845	COIL, COMMONMODE, TEM2030AY
L5050	23103845	COIL, COMMONMODE, TEM2030AY
LJ901	23200465	COIL, GEOMAGNETIC CORRECTION, TSB-2411AG
LV01	23103845	COIL, COMMONMODE, TEM2030AY
LV15	23103852	COIL, FILTER, TEM2028AH
LV17	23103852	COIL, FILTER, TEM2028AH
LV19	23289560	COIL, PEAKING, TRF4560AF
LV21	23289101	COIL, PEAKING, TRF4101AF
LV71	23289840	COIL, PEAKING, TRF4100AT
LV248	23103845	COIL, COMMONMODE, TEM2030AY
LY22	23103852	COIL, FILTER, TEM2028AH
LY23	23289840	COIL, PEAKING, TRF4100AT
T400	23224364	TRANSFORMER, FOCUS, TLN2168AH
T401	23224371	TRANSFORMER, HORIZ DRIVE, TLN1080AH
⚠ T461Z	23236727	TRANSFORMER, FBT, TFB4180ZD
⚠ T802	23211729	COIL, LINE FILTER, TRF3232AQ
⚠ T840	23217530	TRANSFORMER, POWER EI28 9.1V, TPW1570AT
⚠ T862	23217485	TRANSFORMER, CONVERTER, TPW3462AS
SEMICONDUCTORS		
Q151	23205045	TRANSISTOR, 2SA1037AKQ
Q152	23314204	TRANSISTOR, 2SC2412K,Q
Q171	23314204	TRANSISTOR, 2SC2412K,Q
Q172	23314204	TRANSISTOR, 2SC2412K,Q
Q201	23114528	TRANSISTOR, 2SC1740S
Q220	23114460	TRANSISTOR, RN1204
Q221	23114460	TRANSISTOR, RN1204
Q301	23905610	IC, LA7846N
Q301B	70391355	SCREW, 3X8MM
Q302	23905871	IC, TA1241AN
Q305	23906077	IC, OP-AMP, TCA0372 DP1
Q306	23314962	TRANSISTOR, KTA1266 Y
Q307	23114528	TRANSISTOR, 2SC1740S

Location No.	Parts No.	Description
Q308	23114528	TRANSISTOR, 2SC1740S
Q340	23205057	TRANSISTOR, KTC3875Y
Q360	23205057	TRANSISTOR, KTC3875Y
Q370	23314962	TRANSISTOR, KTA1266 Y
Q390	72112051	IC, TA75558S
Q391	23205079	TRANSISTOR, 2SC4686A
Q402	23114577	TRANSISTOR, 2SC22350 (FA-1
Q404	23205007	TRANSISTOR, 2SC5570(FA)
Q404B	23850638	INSULATOR, TRANSISTOR, AC263
Q404D	72471082	SCREW, 3X10MM
Q408	23114462	TRANSISTOR, RN1202
Q409	23114462	TRANSISTOR, RN1202
Q418	23314141	TRANSISTOR, 2SC3852
Q418B	70391354	SCREW, BITTB3X6 SZN
Q420	23000370	IC, TA1318N
Q422	23114499	TRANSISTOR, RN1404
Q425	23314204	TRANSISTOR, 2SC2412K,Q
Q426	23114497	TRANSISTOR, RN1406
Q427	23114497	TRANSISTOR, RN1406
Q428	23114497	TRANSISTOR, RN1406
Q430	23319202	IC, MC7809CT
Q431	23114499	TRANSISTOR, RN1404
Q434	23314917	TRANSISTOR, 2SK2003-01MR
Q437	23114528	TRANSISTOR, 2SC1740S
Q438	23314714	TRANSISTOR, 2SK1356
Q460	23314938	TRANSISTOR, 2SD2493(P)
Q460B	72471082	SCREW, 3X10MM
Q465	23314962	TRANSISTOR, KTA1266 Y
Q470	23114759	TRANSISTOR, 2SA949-Y
Q470	23314204	TRANSISTOR, 2SC2412K,Q
Q476	23114459	TRANSISTOR, RN1205
Q484	23314962	TRANSISTOR, KTA1266 Y
Q486	23114528	TRANSISTOR, 2SC1740S
Q495	23118952	IC, PHOTO COUPLER, TLP521-1 (FA)
Q498	23114458	TRANSISTOR, RN1206
Q510	23009251	IC, BACK END PROCESSOR 56
Q520	23319199	IC, MC7805CT
Q550	23205054	TRANSISTOR, KTA1504Y
Q551	23205054	TRANSISTOR, KTA1504Y
Q552	23205054	TRANSISTOR, KTA1504Y
Q610	23906523	IC, TA8256BH (36HFX72)
Q610	23906880	IC, TA8246AH (36HF72)
Q610B	70391355	SCREW, 3X8MM
Q611	70114396	TRANSISTOR, 2SC3326B
Q612	23205054	TRANSISTOR, KTA1504Y
Q613	70114396	TRANSISTOR, 2SC3326B
Q670	70114396	TRANSISTOR, 2SC3326B
Q683	23205057	TRANSISTOR, KTC3875Y
Q705	23114433	TRANSISTOR, 2SC1815-Y
Q706	23114433	TRANSISTOR, 2SC1815-Y
Q707	23114437	TRANSISTOR, 2SC752GTM-Y
Q709	23114433	TRANSISTOR, 2SC1815-Y
Q710	23114425	TRANSISTOR, 2SA1015-Y(TE
Q711	23314909	TRANSISTOR, 2SA1837
Q712	23314912	TRANSISTOR, 2SC4793
Q719	23114433	TRANSISTOR, 2SC1815-Y
Q720	23114433	TRANSISTOR, 2SC1815-Y
⚠ Q801	23135013	IC, STR-Z4317
Q801B	23476828	BRACKET IC MOUNTING, TMX LOCAL CF35F50
Q805	23114459	TRANSISTOR, RN1205
Q831	23319203	IC, MC7812CT
Q831B	70391355	SCREW, 3X8MM
Q835	23000546	IC, SI-8050SS
Q835B	70391355	SCREW, 3X8MM

Location No.	Parts No.	Description
Q836	23114458	TRANSISTOR, RN1206
Q836	23319202	IC, MC7809CT
Q836B	70391355	SCREW, 3X8MM
Q837	23319202	IC, MC7809CT
Q837B	70391355	SCREW, 3X8MM
Q838	23319202	IC, MC7809CT
Q838B	70391355	SCREW, 3X8MM
Q839	23905239	IC, PQ30RV1
Q839B	70391355	SCREW, 3X8MM
Q840	23905976	IC, PQ05RD11
Q840B	70391355	SCREW, 3X8MM
Q843	23114528	TRANSISTOR, 2SC1740S
⚠ Q862	23000823	IC, PHOTO COUPLER, TLP421F(GR)
⚠ Q883	23319692	IC, ERROR AMP. VS=130.2V TO220A SE130N, LF4
Q901	23314780	TRANSISTOR, 2SC4544
Q902	23114433	TRANSISTOR, 2SC1815-Y
Q903	23314780	TRANSISTOR, 2SC4544
Q904	23114433	TRANSISTOR, 2SC1815-Y
Q905	23314780	TRANSISTOR, 2SC4544
Q906	23114433	TRANSISTOR, 2SC1815-Y
Q907	23114735	TRANSISTOR, 2SA102-Y(C)
Q908	23114429	TRANSISTOR, 2SC2120-Y(TE
Q910	23114433	TRANSISTOR, 2SC1815-Y
Q911	23114433	TRANSISTOR, 2SC1815-Y
Q912	23114425	TRANSISTOR, 2SA1015-Y(TE
Q913	23114425	TRANSISTOR, 2SA1015-Y(TE
Q914	23114433	TRANSISTOR, 2SC1815-Y
Q917	23114433	TRANSISTOR, 2SC1815-Y
Q918	23114433	TRANSISTOR, 2SC1815-Y
Q919	23114433	TRANSISTOR, 2SC1815-Y
Q920	23114433	TRANSISTOR, 2SC1815-Y
Q921	23114433	TRANSISTOR, 2SC1815-Y
Q922	23114433	TRANSISTOR, 2SC1815-Y
Q2104	23314962	TRANSISTOR, KTA1266 Y
Q2105	23314962	TRANSISTOR, KTA1266 Y
Q2106	23314962	TRANSISTOR, KTA1266 Y
Q3103	23205054	TRANSISTOR, KTA1504Y
Q4460	23114528	TRANSISTOR, 2SC1740S
Q4461	23114528	TRANSISTOR, 2SC1740S
Q4462	23114528	TRANSISTOR, 2SC1740S
Q4819	23114528	TRANSISTOR, 2SC1740S
QA01	23009228	IC, MCU 1CHIP 16BIT 4M 64
QA02	23906642	IC, AT24C64-10PC
QA14	23205054	TRANSISTOR, KTA1504Y
QA21	23314204	TRANSISTOR, 2SC2412K,Q
QA27	23904896	IC, JLC1562BF
QA70	23319935	IC, MM1096BS
QA71	23314204	TRANSISTOR, 2SC2412K,Q
QA72	23314204	TRANSISTOR, 2SC2412K,Q
QA80	23906295	IC, UPC29M33HB
QA81	70200563	IC, RESET VS=2.9V PST9129, PST9129
QB03	23114498	TRANSISTOR, RN1405
QB05	23314204	TRANSISTOR, 2SC2412K,Q
QB11	23114528	TRANSISTOR, 2SC1740S
QB14	23314204	TRANSISTOR, 2SC2412K,Q
QB15	23314204	TRANSISTOR, 2SC2412K,Q
QB30	23114528	TRANSISTOR, 2SC1740S
QB41	23205054	TRANSISTOR, KTA1504Y
QB42	23205054	TRANSISTOR, KTA1504Y
QB43	23205057	TRANSISTOR, KTC3875Y
QB44	23114499	TRANSISTOR, RN1404
QB45	23205057	TRANSISTOR, KTC3875Y
QB55	23314204	TRANSISTOR, 2SC2412K,Q
QB92	23314204	TRANSISTOR, 2SC2412K,Q

Location No.	Parts No.	Description
QB93	23205045	TRANSISTOR, 2SA1037AKQ
QB94	23205045	TRANSISTOR, 2SA1037AKQ
QB95	23205045	TRANSISTOR, 2SA1037AKQ
QB96	23205045	TRANSISTOR, 2SA1037AKQ
QD01	23009142	IC, 2CH A-PRO WITH AGC DIP32, NJW1136D
QD41	23000725	IC, NJM2700L (36HFX72)
QD41	23000189	IC, TA2136N (36HF72)
QD42	23314085	TRANSISTOR, FET, 2SK372 V (36HFX72)
QD44	23114460	TRANSISTOR, RN1204 (36HFX72)
QD45	23114460	TRANSISTOR, RN1204 (36HFX72)
QD81	23114466	TRANSISTOR, RN2204 (36HFX72)
QD82	23114623	TRANSISTOR, 2SC2878-A(TEM (36HFX72)
QD83	23114623	TRANSISTOR, 2SC2878-A(TEM (36HFX72)
QJ02	23114528	TRANSISTOR, 2SC1740S
QJ03	23314912	TRANSISTOR, 2SC4793
QJ04	23114528	TRANSISTOR, 2SC1740S
QM03	23205057	TRANSISTOR, KTC3875Y
QM15	70114402	TRANSISTOR, 2SC3437-Y
QR90	23314204	TRANSISTOR, 2SC2412K,Q
QR91	23314204	TRANSISTOR, 2SC2412K,Q
QS01	70114396	TRANSISTOR, 2SC3326B
QS11	70114396	TRANSISTOR, 2SC3326B
QS12	23114493	TRANSISTOR, RN2404
QS13	23205057	TRANSISTOR, KTC3875Y
QS14	23205057	TRANSISTOR, KTC3875Y
QS101	23906597	IC, BA4558F
QS102	23114493	TRANSISTOR, RN2404
QS103	70114396	TRANSISTOR, 2SC3326B
QS104	70114396	TRANSISTOR, 2SC3326B
QS107	23904896	IC, JLC1562BF
QS108	23205057	TRANSISTOR, KTC3875Y
QS120	23906597	IC, BA4558F
QV01	23905539	IC, TA8851CN
QV02	23905590	IC, M52055FP
QV10	23114528	TRANSISTOR, 2SC1740S
QV17	23205057	TRANSISTOR, KTC3875Y
QV18	23114528	TRANSISTOR, 2SC1740S
QV19	23114499	TRANSISTOR, RN1404
QV37	23205054	TRANSISTOR, KTA1504Y
QV38	23205054	TRANSISTOR, KTA1504Y
QV39	23205054	TRANSISTOR, KTA1504Y
QV160	23114500	TRANSISTOR, RN1403
QW05	23205057	TRANSISTOR, KTC3875Y
QW08	23205057	TRANSISTOR, KTC3875Y
QW11	23205057	TRANSISTOR, KTC3875Y
QY264	23205057	TRANSISTOR, KTC3875Y
D101	23316754	DIODE, ZENER, MTZJ33B
D301	23316472	DIODE, RGP10J
D302	23316472	DIODE, RGP10J
D303	23316794	DIODE, SC570A
D312	23118041	DIODE, MA111
D330	23118041	DIODE, MA111
D335	23316715	DIODE, ZENER, MTZJ11A
D336	23316672	DIODE, ZENER, MTZJ5.6B
D337	23316672	DIODE, ZENER, MTZJ5.6B
D338	23316655	DIODE, ZENER, MTZJ3.0B
D341	23118041	DIODE, MA111
D354	23118859	DIODE, 1SS133
D370	23316672	DIODE, ZENER, MTZJ5.6B
D371	23118859	DIODE, 1SS133
D390	23316651	DIODE, ZENER VZ=2.43-2.63V DO 34 MTZ J 2.4B
D395	23316725	DIODE, ZENER, MTZJ15B
D404	23224366	DIODE, FMQ-3GU
D406	23316472	DIODE, RGP10J

Location No.	Parts No.	Description
D408	23316472	DIODE, RGP10J
D410	23118094	DIODE, EU2A
D412	23118094	DIODE, EU2A
D413	23118859	DIODE, 1SS133
D414	23316688	DIODE, ZENER, MTZJ9.1C
D415	23316472	DIODE, RGP10J
D417	23316726	DIODE, ZENER, MTZJ15C
D418	23316726	DIODE, ZENER, MTZJ15C
D419	23316716	DIODE, ZENER, MTZJ11B
D420	23316716	DIODE, ZENER, MTZJ11B
D422	23316591	DIODE, ZENER, MA8100-M
D423	23115532	DIODE, ERB12-01
D424	23357076	DIODE, ZENER, HZS6.8N B2
D432	23115532	DIODE, ERB12-01
D467	23118094	DIODE, EU2A
D470	23316758	DIODE, ZENER, MTZJ36B
D471	23316472	DIODE, RGP10J
D475	23316715	DIODE, ZENER, MTZJ11A
D476	23118859	DIODE, 1SS133
D477	23118859	DIODE, 1SS133
D479	23118041	DIODE, MA111
D480	23118859	DIODE, 1SS133
D481	23118859	DIODE, 1SS133
⚠ D484	23115774	DIODE, ZENER, RD6.2E(FA-1)
D485	23316691	DIODE, ZENER, MTZJ10C
D498	23118859	DIODE, 1SS133
D502	23118041	DIODE, MA111
D503	23118041	DIODE, MA111
D505	23316622	DIODE, ZENER, MA8270-M
D520	23316647	DIODE, ZENER, MTZJ2.0B
D601	23118041	DIODE, MA111
D602	23118041	DIODE, MA111
D603	23118041	DIODE, MA111
D604	23118041	DIODE, MA111
D607	23118262	DIODE, RD33MD
D611	23118041	DIODE, MA111
D612	23118131	DIODE, 1SS193
D613	23118041	DIODE, MA111
D614	23118041	DIODE, MA111
D615	23118041	DIODE, MA111
D616	23118041	DIODE, MA111
D617	23118041	DIODE, MA111
D704	23118859	DIODE, 1SS133
D705	23118859	DIODE, 1SS133
D715	23118859	DIODE, 1SS133
D721	23118859	DIODE, 1SS133
⚠ D801	23357041	DIODE, LN6SB60-F05
D801B	70391356	SCREW, BITTB3X10 SZN
D835	23118096	DIODE, RK34
D836	23316782	DIODE, ZENER, MTZJ6.2C
D837	23316678	DIODE, ZENER, MTZJ6.8B
D840	23316962	DIODE, S1WBA20
D841	23316269	DIODE, AK04
D845	23118859	DIODE, 1SS133
D855	23118859	DIODE, 1SS133
D862	23316472	DIODE, RGP10J
D864	23316813	DIODE, EG1
D873	23316690	DIODE, ZENER, MTZJ10B
D875	23316689	DIODE, ZENER, MTZJ10A
D876	23316747	DIODE, ZENER, MTZJ27C
D879	23316747	DIODE, ZENER, MTZJ27C
D881	23118859	DIODE, 1SS133
D883	23357018	DIODE, VRM=350V IF=2A S-R DO15L RL2
D884	23357018	DIODE, VRM=350V IF=2A S-R DO15L RL2
D885	23316819	DIODE, RU4YX

Location No.	Parts No.	Description
D886	23316819	DIODE, RU4YX
D892	23316184	DIODE, FML-G12S
D892B	70391355	SCREW, 3X8MM
D893	23316184	DIODE, FML-G12S
D893B	70391355	SCREW, 3X8MM
D895	23118094	DIODE, EU2A
D896	23118094	DIODE, EU2A
⚠ D899	24019485	VARISTOR, TNR10V431K
D901	23118859	DIODE, 1SS133
D904	23118859	DIODE, 1SS133
D905	23118859	DIODE, 1SS133
D906	23118859	DIODE, 1SS133
D907	23118859	DIODE, 1SS133
D908	23118859	DIODE, 1SS133
D909	23118859	DIODE, 1SS133
D911	23115337	DIODE, 1S1834
D921	23115337	DIODE, 1S1834
D931	23118859	DIODE, 1SS133
D932	23118859	DIODE, 1SS133
D933	23118859	DIODE, 1SS133
D934	23118859	DIODE, 1SS133
D941	23118859	DIODE, 1SS133
D942	23118859	DIODE, 1SS133
D943	23118859	DIODE, 1SS133
D946	23118859	DIODE, 1SS133
D963	23118859	DIODE, 1SS133
D964	23118859	DIODE, 1SS133
D965	23118859	DIODE, 1SS133
D966	23118859	DIODE, 1SS133
D970	23118859	DIODE, 1SS133
D4385	23316680	DIODE, ZENER, MTZJ7.5A
D4386	23118859	DIODE, 1SS133
D4461	23118041	DIODE, MA111
D4818	23316749	DIODE, ZENER, MTZJ30A
D4819	23118725	THYRISTER, SF0R3G42(N)
DA02	23316574	DIODE, ZENER CHIP VZ6.05-6.36V MA8062-M
DA11	23118859	DIODE, 1SS133
DA23	23118041	DIODE, MA111
DA43	23118041	DIODE, MA111
DA44	23118041	DIODE, MA111
DA45	23118041	DIODE, MA111
DA46	23118041	DIODE, MA111
DA70	23118041	DIODE, MA111
DA170	23316575	DIODE, ZENER CHIP VZ6.24-6.56V MA8062-H
DB01	23358564	DIODE, LED, SLR-56VC3FPQ
DB03	23358522	DIODE, LED, SIR-56SB3F
DB05	23316675	DIODE, ZENER, MTZJ6.2B
DB30	23118041	DIODE, MA111
DB31	23118041	DIODE, MA111
DB40	23118041	DIODE, MA111
DD81	23118859	DIODE, 1SS133 (36HFX72)
DD82	23118859	DIODE, 1SS133 (36HFX72)
DD83	23118859	DIODE, 1SS133 (36HFX72)
DJ01	23118859	DIODE, 1SS133
DJ02	23316726	DIODE, ZENER, MTZJ15C
DR90	23118041	DIODE, MA111
DS106	23316580	DIODE, ZENER CHIP VZ7.29-7.67V MA8075-M
DS120	23316740	DIODE, ZENER VZ21.52-22.63 DO 34 MTZ J 22D
DV01	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV02	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV03	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV07	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV08	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV09	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L

Location No.	Parts No.	Description
DV11	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV13	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV17	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV18	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV121	23316587	DIODE, ZENER CHIP VZ8.58-9.02V MA8091-L
DV161	23316591	DIODE, ZENER, MA8100-M
DV162	23316591	DIODE, ZENER, MA8100-M
DV163	23316591	DIODE, ZENER, MA8100-M
DV164	23316591	DIODE, ZENER, MA8100-M
DV165	23316591	DIODE, ZENER, MA8100-M
DV166	23316591	DIODE, ZENER, MA8100-M
MISCELLANEOUS		
B230	23037312	SCREW, BTBW3X12SZN
B231	23035412	SCREW, BTB4X12SZN
B232	23035312	SCREW, BTB3X12SZN
BB130	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
BB13A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB13B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB14A	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB14B	23713013	BASE SOCKET 16P 1.5
BB160	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
BB16A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB16B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB50A	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB50B	23713013	BASE SOCKET 16P 1.5
BB60A	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB60B	23713013	BASE SOCKET 16P 1.5
BB70A	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB70B	23713013	BASE SOCKET 16P 1.5
BB80A	23368517	CONNECTOR, PLUG, B-B 6P
BB80B	23902749	CONNECTOR, SOCKET, B-B 6P
⚠ F470	23144897	FUSE, 2A 125V
F470A	23165433	FUSE HOLDER, 5.2 SOC
⚠ F801	23144745	FUSE, 10.0A UL
F801A	23165433	FUSE HOLDER, 5.2 SOC
⚠ F860	23144456	FUSE, AXIAL, 125V 5.0A
⚠ F889	23144456	FUSE, AXIAL, 125V 5.0A
⚠ F890	23144456	FUSE, AXIAL, 125V 5.0A
⚠ F891	23144456	FUSE, AXIAL, 125V 5.0A
G101	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
G102	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
G301	24366472	CARBON FILM, 1/6W 4.7K OHM J
G306	24366222	CARBON FILM, 1/6W 2.2K OHM J
G312	24366272	CARBON FILM, 1/6W 2.7K OHM J
G370	24338159	OXIDE METAL FILM, 1W 1.5 OHM J
G403	24946223	CARBON COMPOSITION GF 1/2W 22K K
G498	24568109	CERAMIC COVERED G 7W 1.0 J
⚠ G883	23316679	DIODE, ZENER, MTZJ6.8C
GCD86	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
GCD88	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
GCD90	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
GCD91	24797100	ELECTROLYTIC, 50V 10UF M (36HFX72)
GJ02	24000445	CHIP JUMPER, 1608TYPE
GJ03	24000445	CHIP JUMPER, 1608TYPE
GJ04	24000445	CHIP JUMPER, 1608TYPE
GJ17	24000445	CHIP JUMPER, 1608TYPE
GJ19	24000445	CHIP JUMPER, 1608TYPE
GJ33	24000445	CHIP JUMPER, 1608TYPE
GJ40	24000445	CHIP JUMPER, 1608TYPE
GJ42	24000445	CHIP JUMPER, 1608TYPE
GJ43	24000445	CHIP JUMPER, 1608TYPE
GJ663	24000445	CHIP JUMPER, 1608TYPE (36HF72)

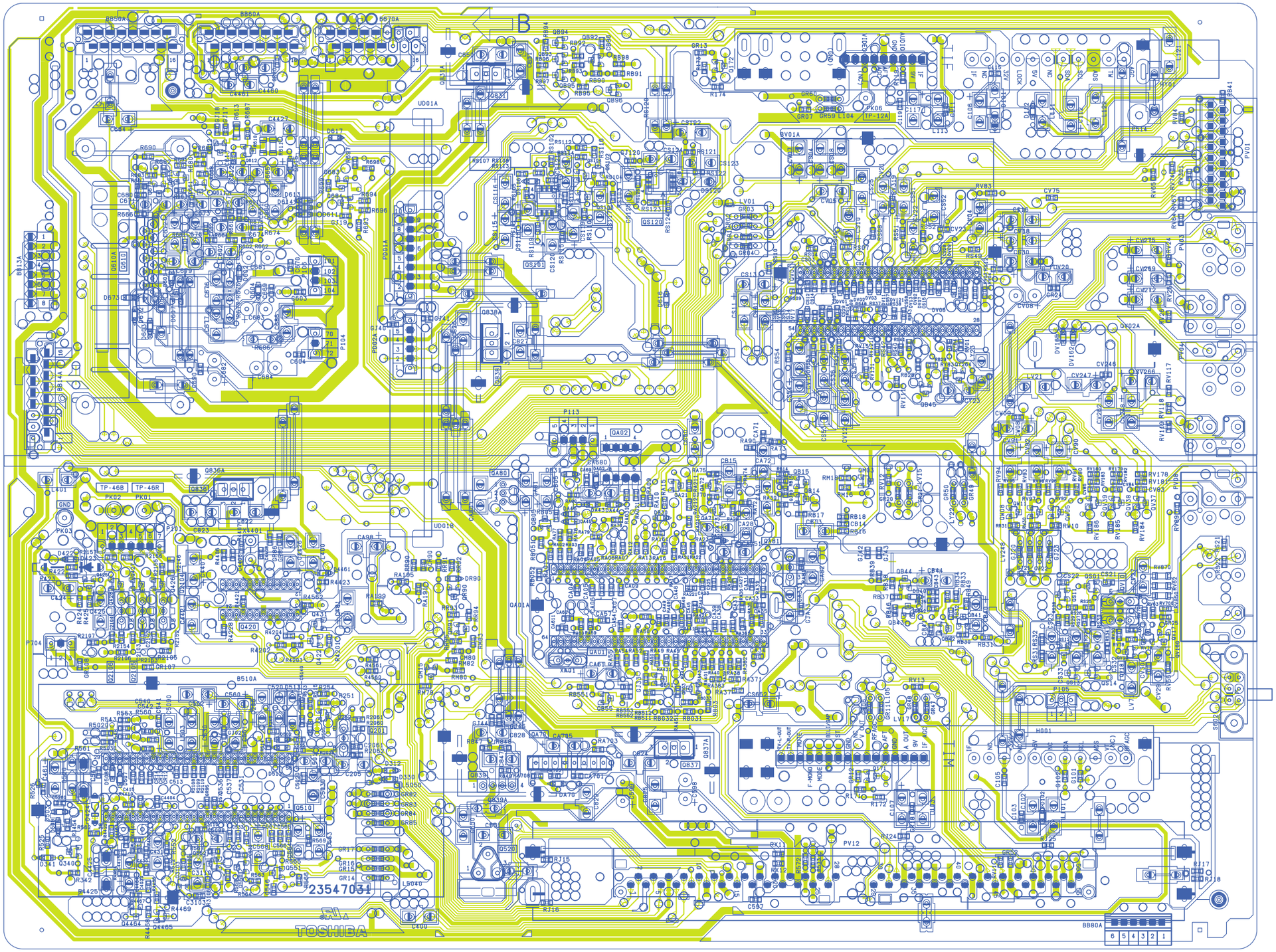
Location No.	Parts No.	Description
GJ664	24000445	CHIP JUMPER, 1608TYPE (36HFX72)
GJA33	24000445	CHIP JUMPER, 1608TYPE
GR07	24000445	CHIP JUMPER, 1608TYPE
GR24	24000445	CHIP JUMPER, 1608TYPE
GR90	24000445	CHIP JUMPER, 1608TYPE
GR95	24000445	CHIP JUMPER, 1608TYPE
GR107	24000445	CHIP JUMPER, 1608TYPE
GRD80	24366472	CARBON FILM, 1/6W 4.7K OHM J (36HFX72)
GRD82	24366472	CARBON FILM, 1/6W 4.7K OHM J (36HFX72)
H003	23124086	ANTENNA SWITCH, BUNKI
H003A	23740989	NUT, F-CONNECTOR 2H BS
KB01	23906805	IC, REMOTE PHOTO RECIEVER, PIC-TB17
M461A	23192957	ANODE CAP ASSY, TCC5602AT
M461B	23505090	CABLE, CABLE FOCUS
M461C	23505089	CABLE, CABLE FOCUS
M461D	23504719	CABLE, SCREEN
N421	23969041	TAPE WHITE 3M #1, W=1 INCH TNP COMMON
N726	23969041	TAPE WHITE 3M #1, W=1 INCH TNP COMMON
P311A	23902863	SOCKET, B-B, 20P 2MM SMK
P311B	23368520	CONNECTOR, 20P, 2MM
P312A	23902863	SOCKET, B-B, 20P 2MM SMK
P312B	23368520	CONNECTOR, 20P, 2MM
⚠ P801	23372113	POWER CORD, U/C 125V10A HSV 2 CMC-02P 1
PV01	23365274	JACK, PIN JACK 2S6P
PV02	23365819	JACK, 1S3P
PV03	23365949	JACK, 5P, 1E:OFF+2R:OFF+2L:OFF, JALC
PV04	23365949	JACK, 5P, 1E:OFF+2R:OFF+2L:OFF, JALC
PV08	23365273	JACK, JACK, PIN 6P
PV12	23903040	SOCKET, B-B 2MM 56P TAIKO
S602	23145409	SWITCH, SLIDE SWITCH
SA01	23145227	SWITCH, PUSH, 1C1P
SA02	23145227	SWITCH, PUSH, 1C1P
SA03	23145227	SWITCH, PUSH, 1C1P
SA04	23145227	SWITCH, PUSH, 1C1P
SA05	23145227	SWITCH, PUSH, 1C1P
SA06	23145227	SWITCH, PUSH, 1C1P
SA07	23145227	SWITCH, PUSH, 1C1P
SA08	23145227	SWITCH, PUSH, 1C1P
⚠ SJ01	23146958	RELAY, 2C 1A DC12V OMRON
⚠ SR42	23146558	RELAY, DC12V SILENT, DJ12D1-O(M)-Q
⚠ SR81	23146577	RELAY, DLS5D1-O(M)0.25W
⚠ SR83	23146564	RELAY, DC12V, TV5, DG-3
UZ01	23148025	SCAN CONVERTER MODUL, N.H, MVPU15
⚠ V901A	23903027	CRT SOCKET, 8P SMK CVT3251-0176 CVT3251-0176
W661	23351171	SPEAKER, 60X120 8-OHM 10W, SPK-1416AT
W662	23351171	SPEAKER, 60X120 8-OHM 10W, SPK-1416AT
W665	23351133	SPEAKER, SPK1392, 100X100 6OHM 16W (36HFX72)
X4401	23153721	CERAMIC RESONATOR, 503KHZ
X4402	23153721	CERAMIC RESONATOR, 503KHZ
XA01	23153533	CERAMIC RESONATOR, CERA RESO, TCR1082AM
Z301	23110850	RECTI BLOCK C222 720K
Z401	23140203	SPARK GAP, 2.0-3.0KV C-010, AG20PC152F-L3N
PC BOARD ASSEMBLIES		
* U801	23787485	POWER/DEF BOARD, PD0159C
* U802	23787486	AC IN BOARD, PD0161B
* U803	23787487	LOW B BOARD, PB9567C
* U901	23787488	CRT/D VM BOARD, PD0164C
* U902	23787489	SIGNAL BOARD, PD0650A (36HFX72)
* U902	23787492	SIGNAL BOARD, PD0650B (36HF72)

Location No.	Parts No.	Description
✻ UA01	23787490	CONTROL-1 BOARD, PD0651A
✻ UA02	23787491	CONTROL-2 BOARD, PD0652A
✻ UD01	23787466	WOW BOARD, PD0645A (36HFX72)
✻ UD01	23787893	SRS-3D BOARD, PD0644B (36HF72)
PICTURE TUBE		
⚠ V901	23312929	PICTURE TUBE, ITC36VPF LH0.22, A90AJZ90X30
TUNER		
⚠ H001	23321411	TUNER, TIM 181CH IIC PH SHINSEN, EL967LW
⚠ HY01	23321445	TUNER, TIF 181CH PH 5V MONO, TN-EL973L
ACCESSORIES		
⚠ K912	23306458	REMOCON HAND UNIT IR, CTV, CT-90121 (36HFX72)
⚠ K912	23306414	REMOCON HAND UNIT IR, PJTVUSA, CT-90087 (36HF72)
⚠ Y101	23565643	OWNER'S MANUAL, ENGLISH/FRENCH, 36HFX72
⚠ Y101	23565661	OWNER'S MANUAL, ENGLISH/FRENCH, 36HF72
CABINET PARTS		
A201	23530330	FRONT COVER ASSY 36HFX72 (36HFX72)
A201	23530329	FRONT COVER ASSY 36HF72 (36HF72)
A213	23428096	DOOR, DOOR 36HFX72 (36HFX72)
A213	23428095	DOOR, DOOR 36HF72 (36HF72)
A214	23451976	PUSH CATCH, CLICK
A223	23445612	POWER BUTTON 36AFX62 (36HFX72)
A223	23445611	POWER BUTTON 36AF62 (36HF72)
A224	23445610	CONTROL BUTTON 36HFX72
A411	23540212	COVER, B/C PROPER 36HFX70
A701	23064768	CARTON, CARTON 36HFX71 (36HFX72)
A701	23064769	CARTON BOX, 36HF71 (36HF72)
A703	23946353	TOP PACKING 36AF62
A708	23946354	BOTTOM PACKING 36AF62

Location No.	Parts No.	Description

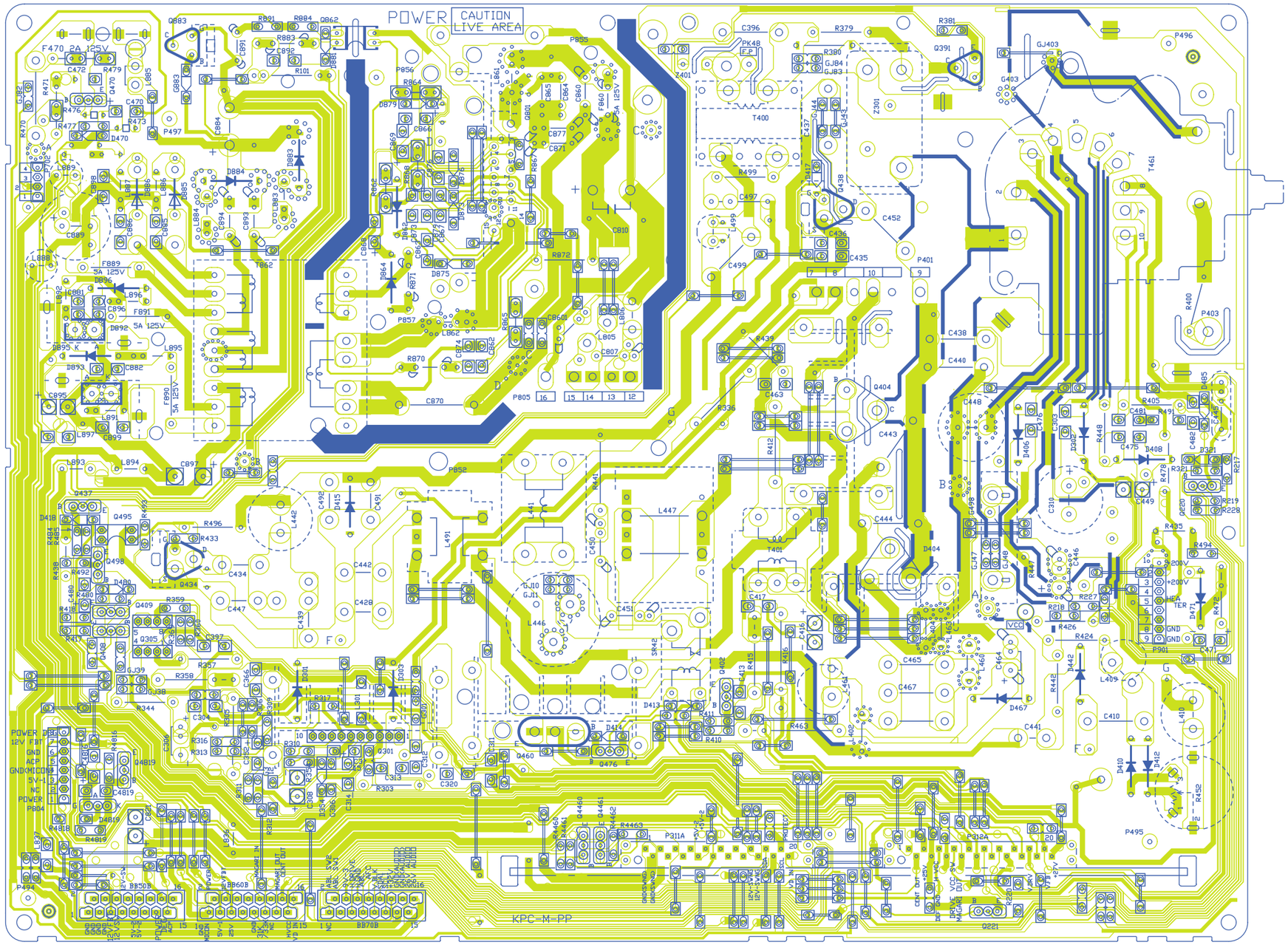
SIGNAL BOARD PD0650

BOTTOM (FOIL) SIDE



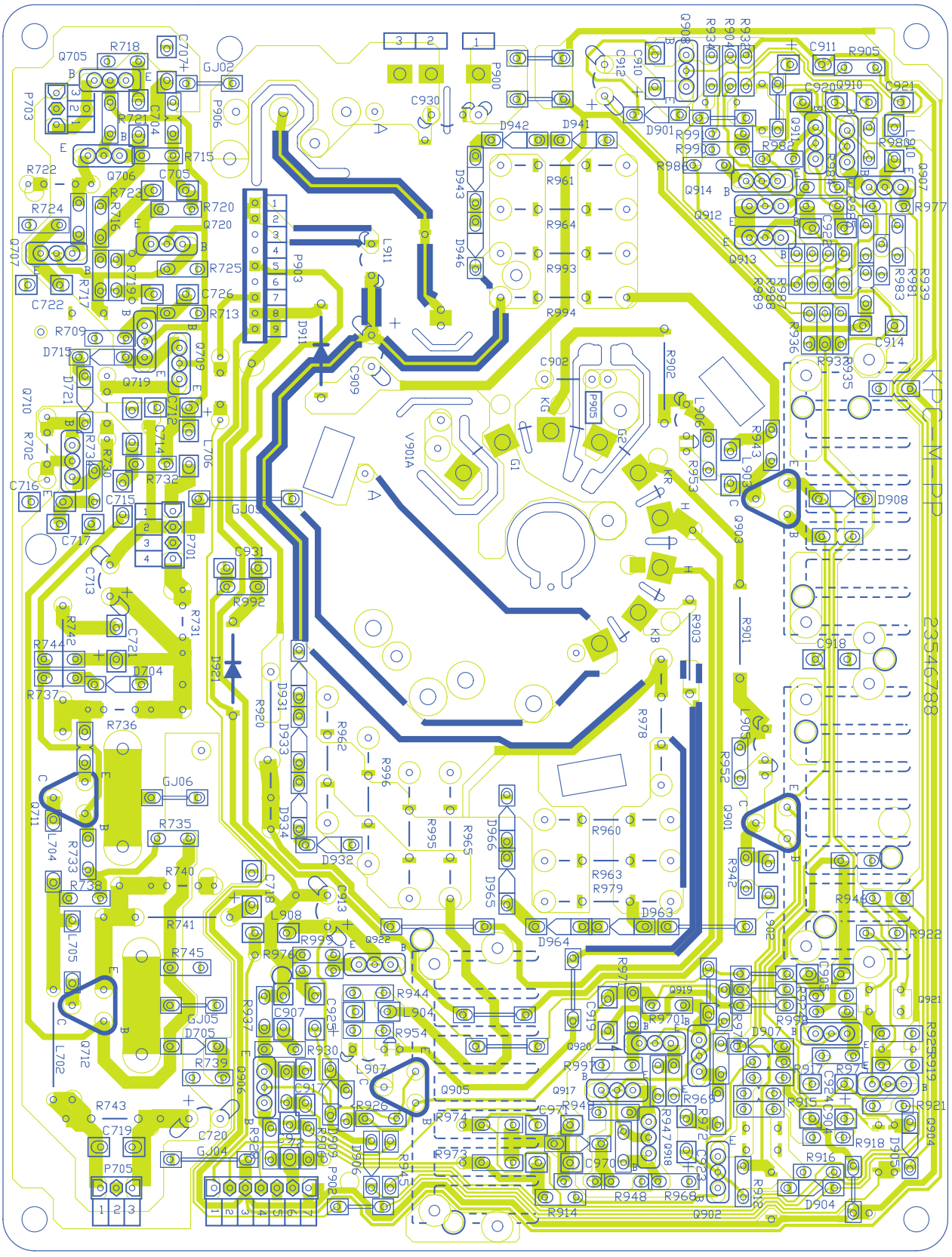
POWER/DEF BOARD PD0159

BOTTOM (FOIL) SIDE



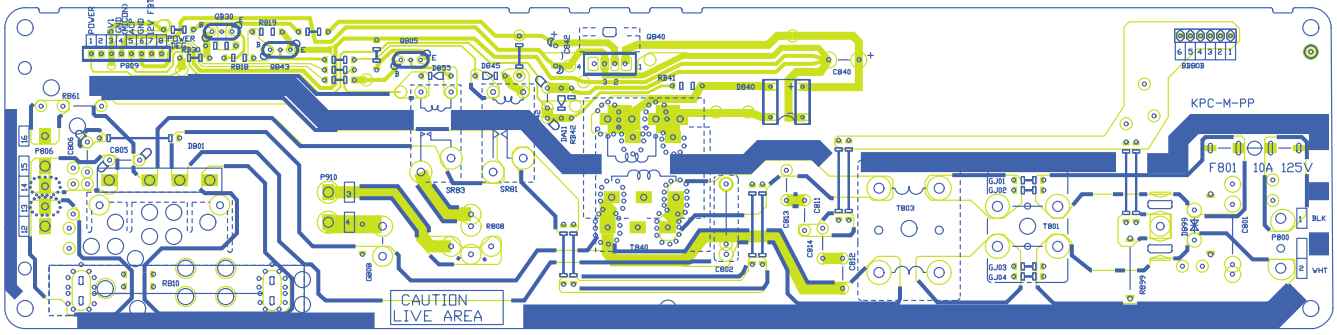
CRT-D/VM BOARD PD0164

BOTTOM (FOIL) SIDE



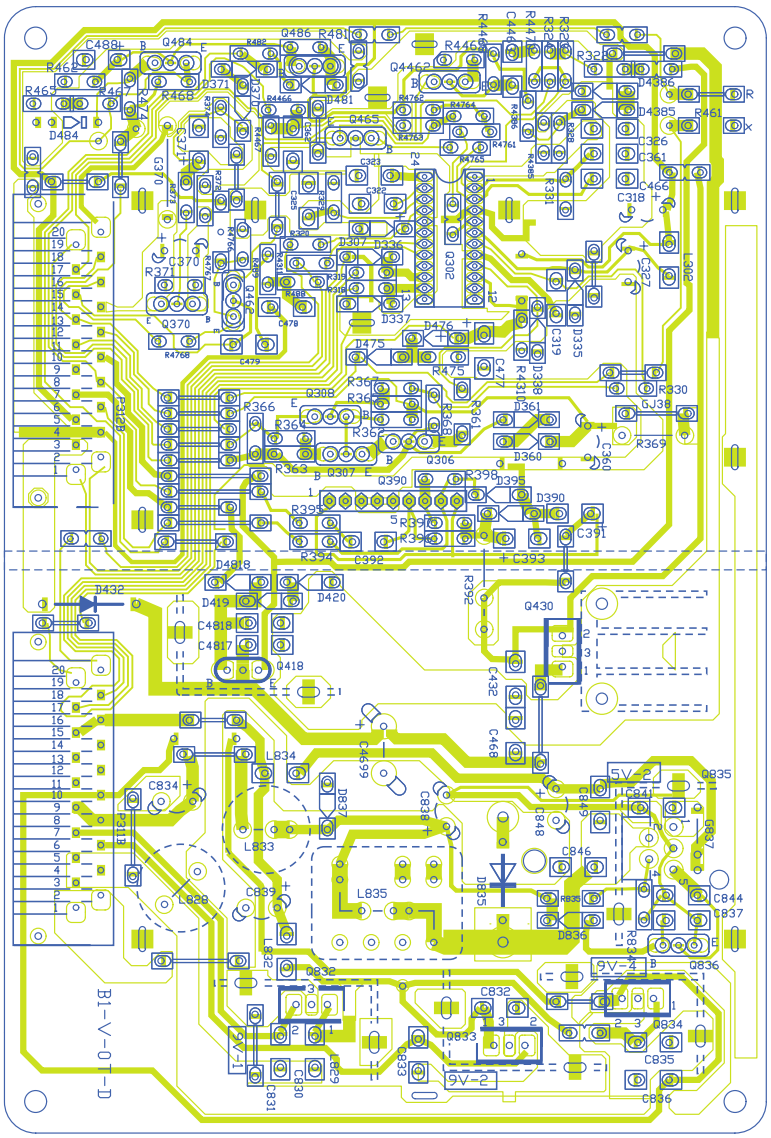
AC IN BOARD PD0161

BOTTOM (FOIL) SIDE



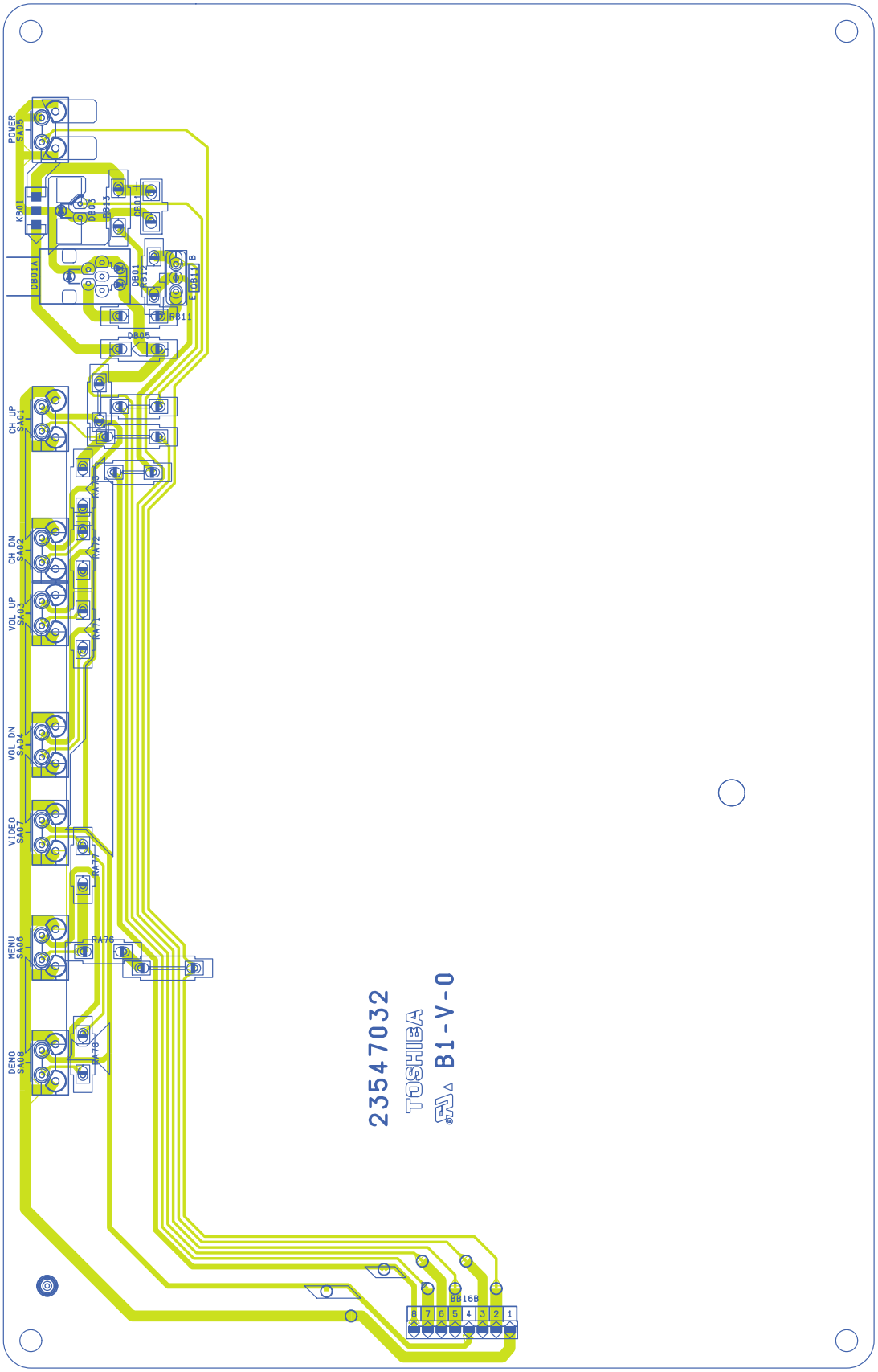
LOW B BOARD PB9567

BOTTOM (FOIL) SIDE



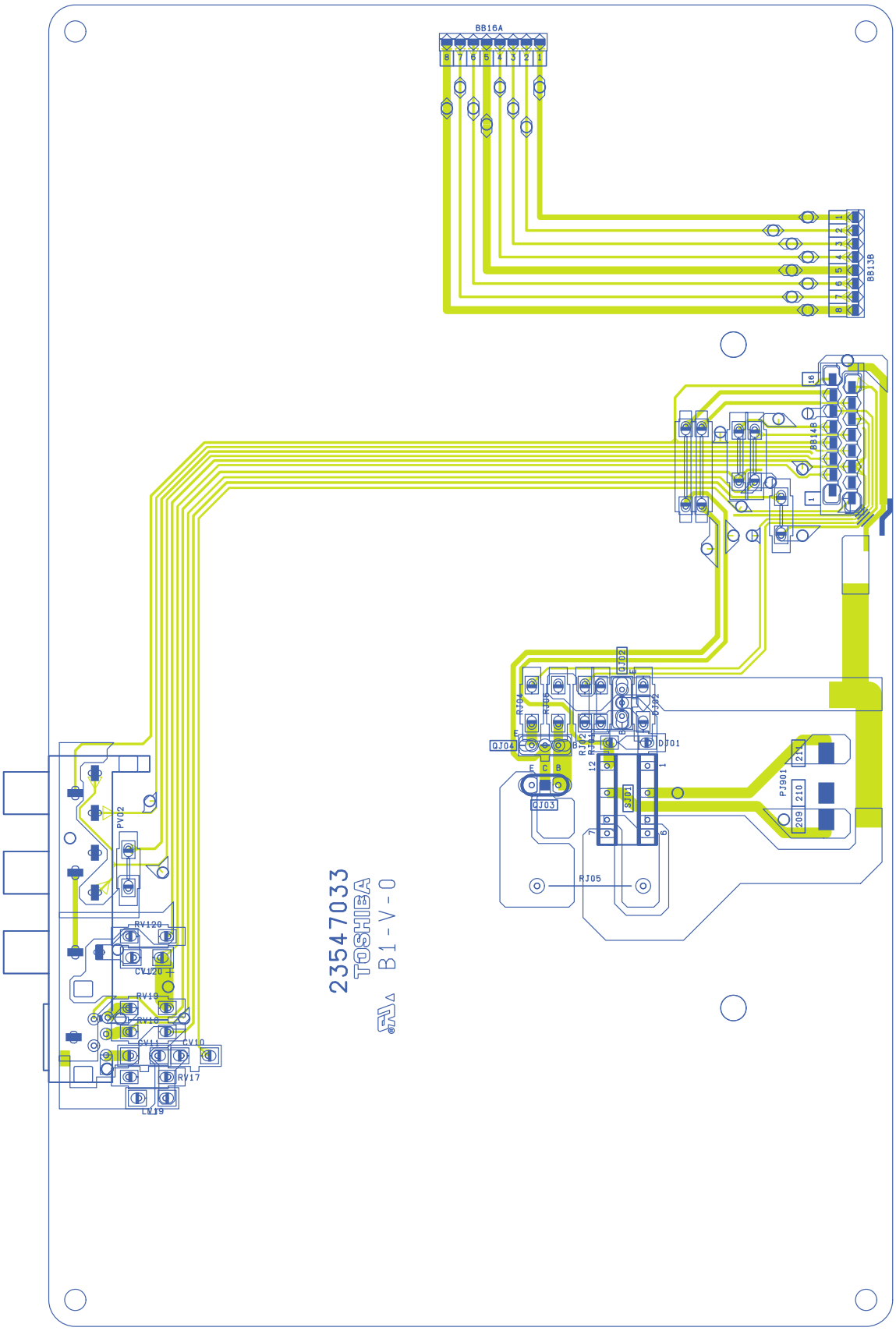
CONTROL-1 BOARD PD0651

BOTTOM (FOIL) SIDE



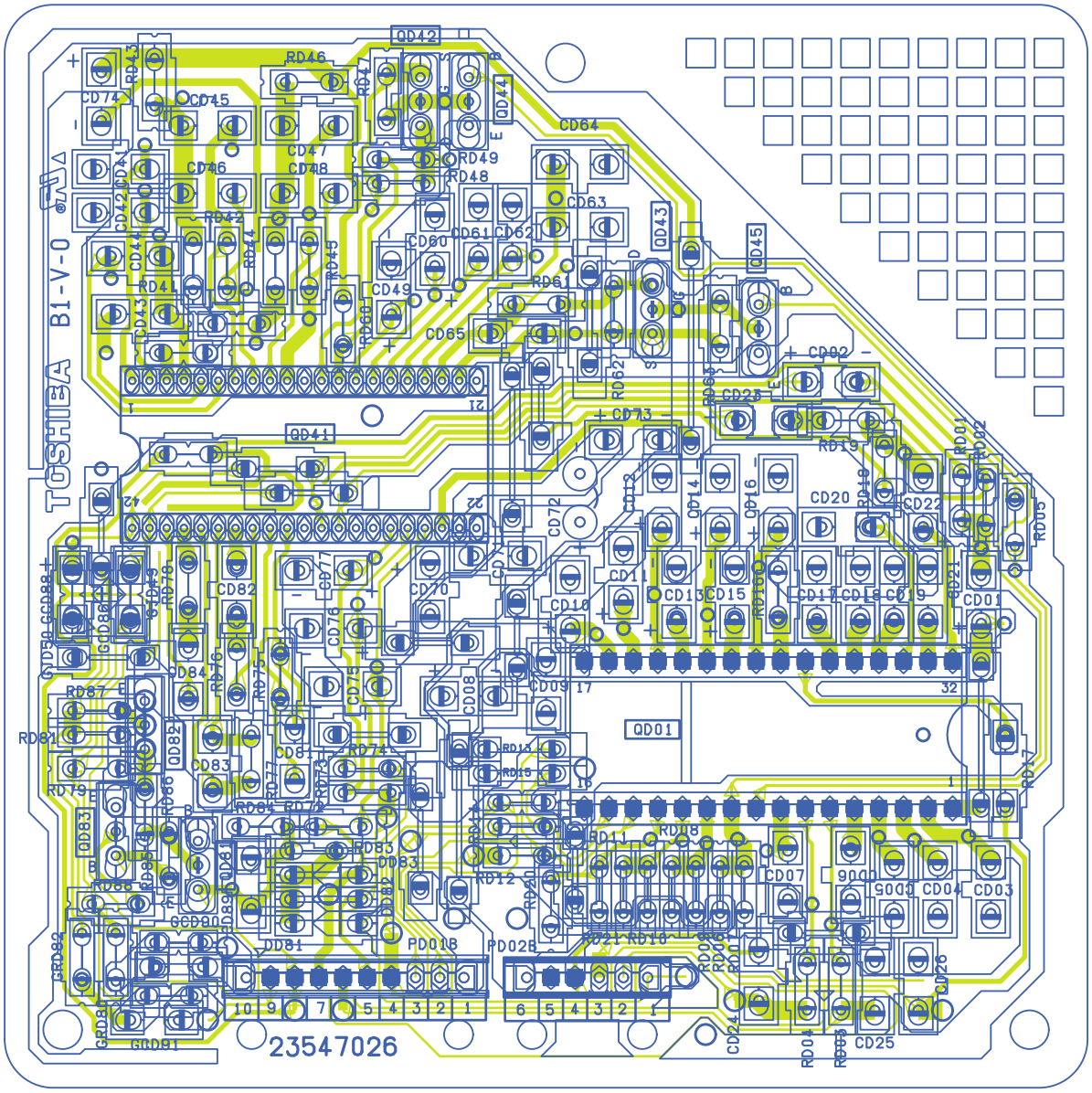
CONTROL-2 BOARD PD0652

BOTTOM (FOIL) SIDE



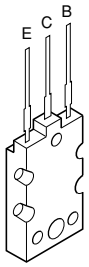
WOW BOARD PD0645

BOTTOM (FOIL) SIDE

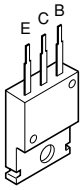


TERMINAL VIEW OF TRANSISTORS

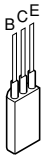
① 2SD2253
(old)
2SC5243



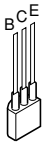
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



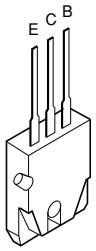
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



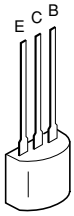
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



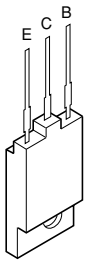
⑤ 2SA1788



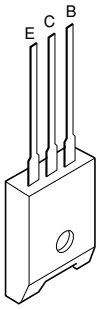
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SC5570
2SD2553



⑧ ON4409



SCHEMATIC DIAGRAM

MODEL : 36HFX72 / 36HF72

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

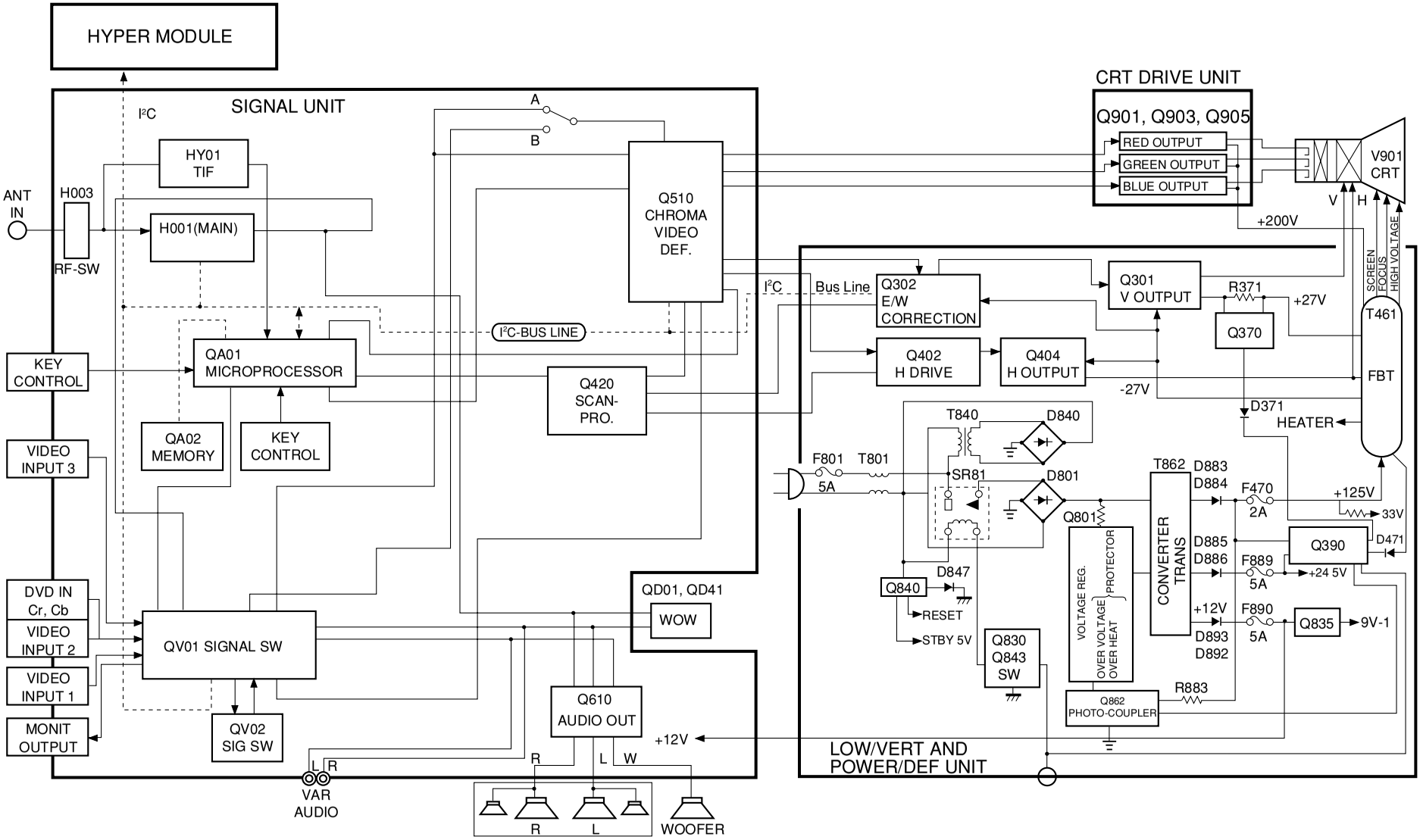
NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 120 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

- SIGNAL Circuit
  - (BANKAN) [SHEET - 1/10] 1/21
  - (AV-1 (1)) [SHEET - 2/10] 2/21
  - (AV-1 (2)) [SHEET - 3/10] 3/21
  - (MAICON-1) [SHEET - 4/10] 4/21
  - (IF) [SHEET - 5/10] 5/21
  - (VCD 1) [SHEET - 6/10] 6/21
  - (VCD 2) [SHEET - 7/10] 7/21
  - (LOWB-REG) [SHEET - 8/10] 8/21
  - (AUDIO) [SHEET - 9/10] 9/21
  - (CONNECT) [SHEET - 10/10] 10/21
- POWER / DEF Circuit
  - (BANKAN) [SHEET - 1/4] 11/21
  - (H-DEF) [SHEET - 2/4] 12/21
  - (MAIN POW) [SHEET - 3/4] 13/21
  - (V-DEF) [SHEET - 4/4] 14/21
- CRT / SVM Circuit
  - (CRT DRIVE) [SHEET - 1/2] 15/21
  - (SVM) [SHEET - 2/2] 16/21
- AC INPUT Circuit 17/21
- LOW-B / VERT Circuit 18/21
- SRS-WOW Circuit 19/21
- CONTROL-1 Circuit 20/21
- CONTROL-2 Circuit 21/21

CIRCUIT BLOCK DIAGRAM



SPECIFICATIONS(Represenlative: 36HFX72)	
TELEVISION SYSTEM	NTSC standard
CHANNEL COVERAGE	VHF: 2 through 13 UHF: 14 through 69 Cable TV: mid band (A-8 through A-1, A through I) super band (J through W) hyper band (AA through ZZ, AAA, BBB) ultra band (65 through 94, 100 through 125)
POWER SOURCE	120V AC, 60Hz
POWER CONSUMPTION	180 W (average)
AUDIO POWER	10W + 10W, 13 W (Sub-woofer)
SPEAKER TYPE	Two 2-3/8 x 4-3/4 inches (60 x 120mm), one 4 inches (10cm)
VIDEO/AUDIO TERMINALS	S-VIDEO INPUT Y: 1V(p-p), 75 ohm, negative sync. C: 0.286V(p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT VIDEO: 1V(p-p), 75 ohm, negative sync. AUDIO: 150mV(rms) (30% modulation equivalent, 47k ohm) ColorStream® (Component video) INPUT Y: 1V (p-p), 75 ohm P_B: 0.7 V (p-p), 75 ohm P_R: 0.7 V (p-p), 75 ohm AUDIO: 150 mV (rms) 47k ohm VIDEO/AUDIO OUT PUT VIDEO: 1 V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 4.7k ohm) VARIABLE AUDIO OUTPUT 0-300mV(rms) (30% modulation equivalent, 4.7k ohm) AUDIO CENTER CHANNEL INPUT 300mV(rms) (30% modulation equivalent, 10k ohm)
DIMENSIONS	Width ..... 38-3/16 inches (970 mm) Height ..... 29-9/16 inches (751 mm) Depth ..... 24-1/4 inches (615 mm)
MASS	206.0 lbs (93.4 kg)
SUPPLIED ACCESORIES	Remote Control with 2 "AA" size alkaline batteries

* Please refer to owner's manual in detail.

– END –

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 36HFX72 / 36HF72

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  - (MAIN POW) [SHEET - 3/4] 13/21
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  - (CRT DRIVE) [SHEET - 1/2] 15/21
  - (SVM) [SHEET - 2/2] 16/21
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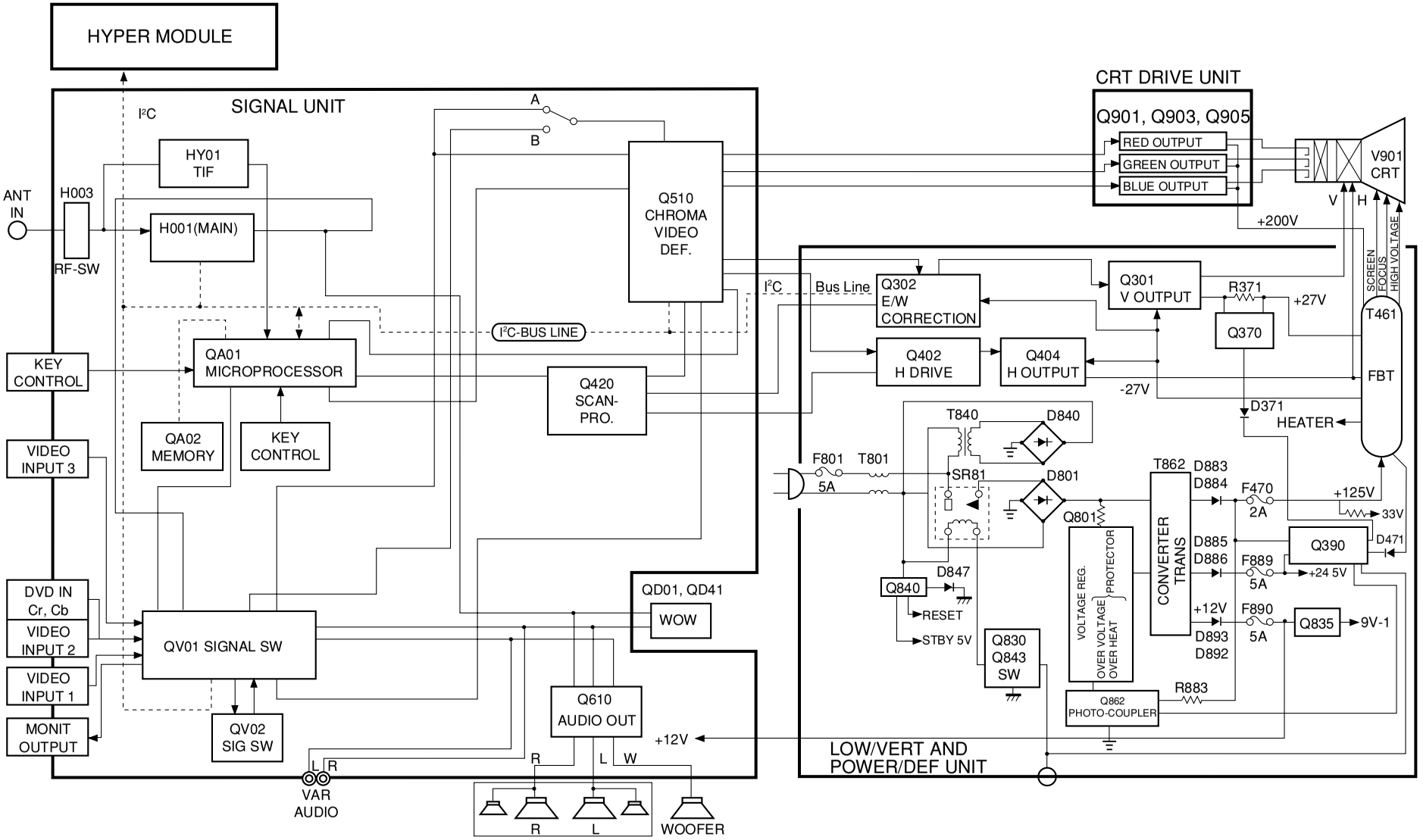
- LOW-B / VERT Circuit 18/21
- SRS-WOW Circuit 19/21
- CONTROL-1 Circuit 20/21
- CONTROL-2 Circuit 21/21

CIRCUIT BLOCK DIAGRAM



36HFX72/36HF72
SIGNAL-BANKAN
[SHEET-1/10]

TO HYPER

RF-SW

ANTSW

AC INPUT

TUNER GND

9V3

TAL-L CONNECTOR
PD02A

TAC-L CONNECTOR
PD01A

12V_WOW

R_AV

L_AV

IO_3

WOUT

IO_2

SCL1

SDA1

VM1

P704
3P±2.5mm±1.5A±Beige

P101
7P±2.5mm±1.5A±Beige

TO VM

TO CRT/D

ABL

AFC

HDRIVE

LIVE

ABL_SW

ABL_SW2

V. BLK

27V_AUDIO

32V

5V_HYPER

3. 3V2

9V2

SCL2

SDA2

PIP_Y

PIP_RST

PIP_SYNC

VAV

VC

CO

SYNC_VCD

ABL_SW1

Y2

Cb2

Cr2

HD1-OUT

VD1-OUT

DVDUP

DHDUP

DSCPOUT

BLK_UP

VM-MUTE

MAGARI_HOSEI

VD

VC9V

CENT-OUT

MAGARI

31K_33K

25V

12V_FBT

5V1

POWER

ACP

POWER DEG

12V_SWNG1

BB80A

MVPU14
UZ01

H003
RSU134X1
RF-SW

BB14A
BB 16P BLUG

TO CONTROL-2

W_SPK

L_SPK

R_SPK

CYCLONE

RJ17 OPEN
RJ18 OPEN

RJ24 SHORT

RJ25 OPEN

SCL0

RST

SDA0

RMT_OUT

RMT_IN

LED

KEY_B

KEY_A

TO CONTROL-1

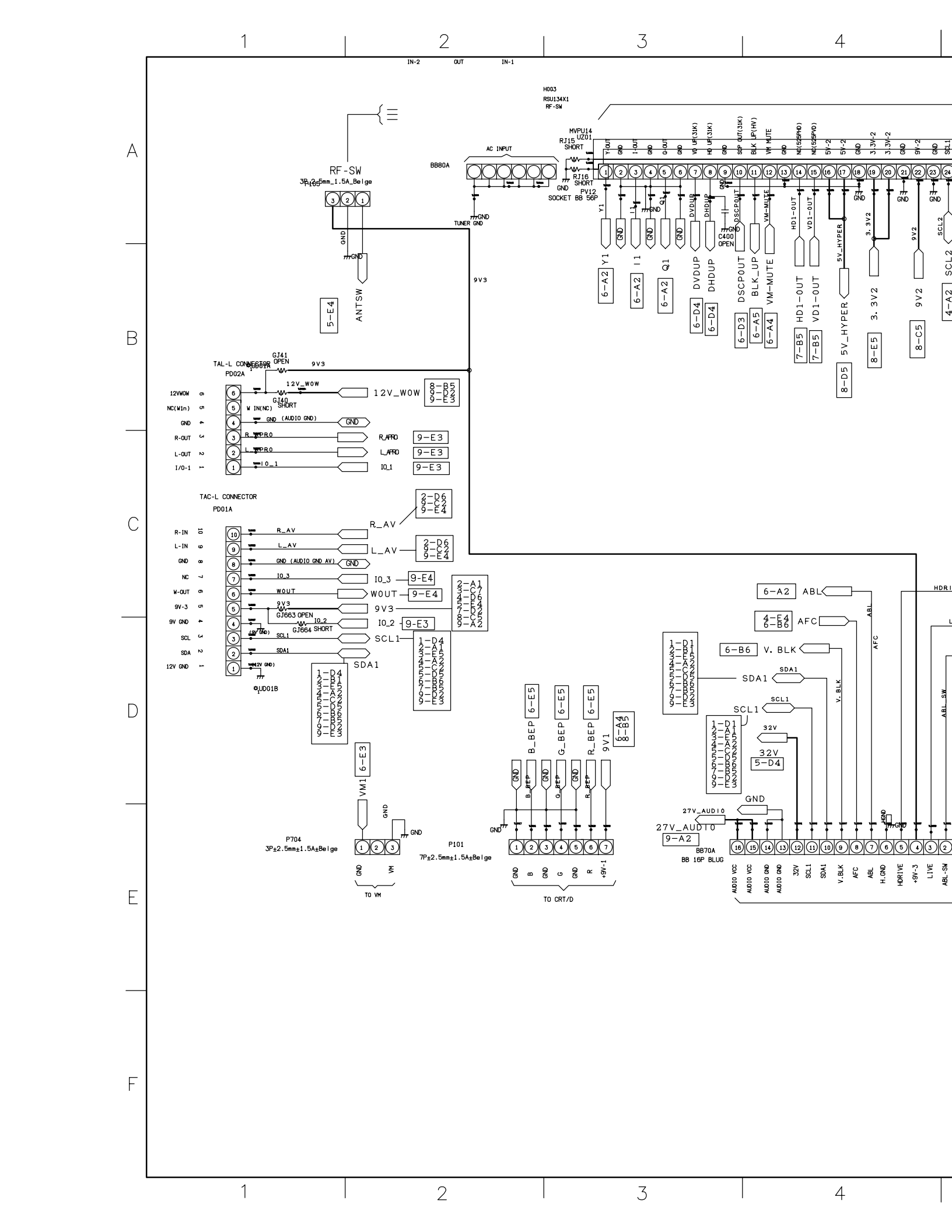
BB70A
BB 16P BLUG

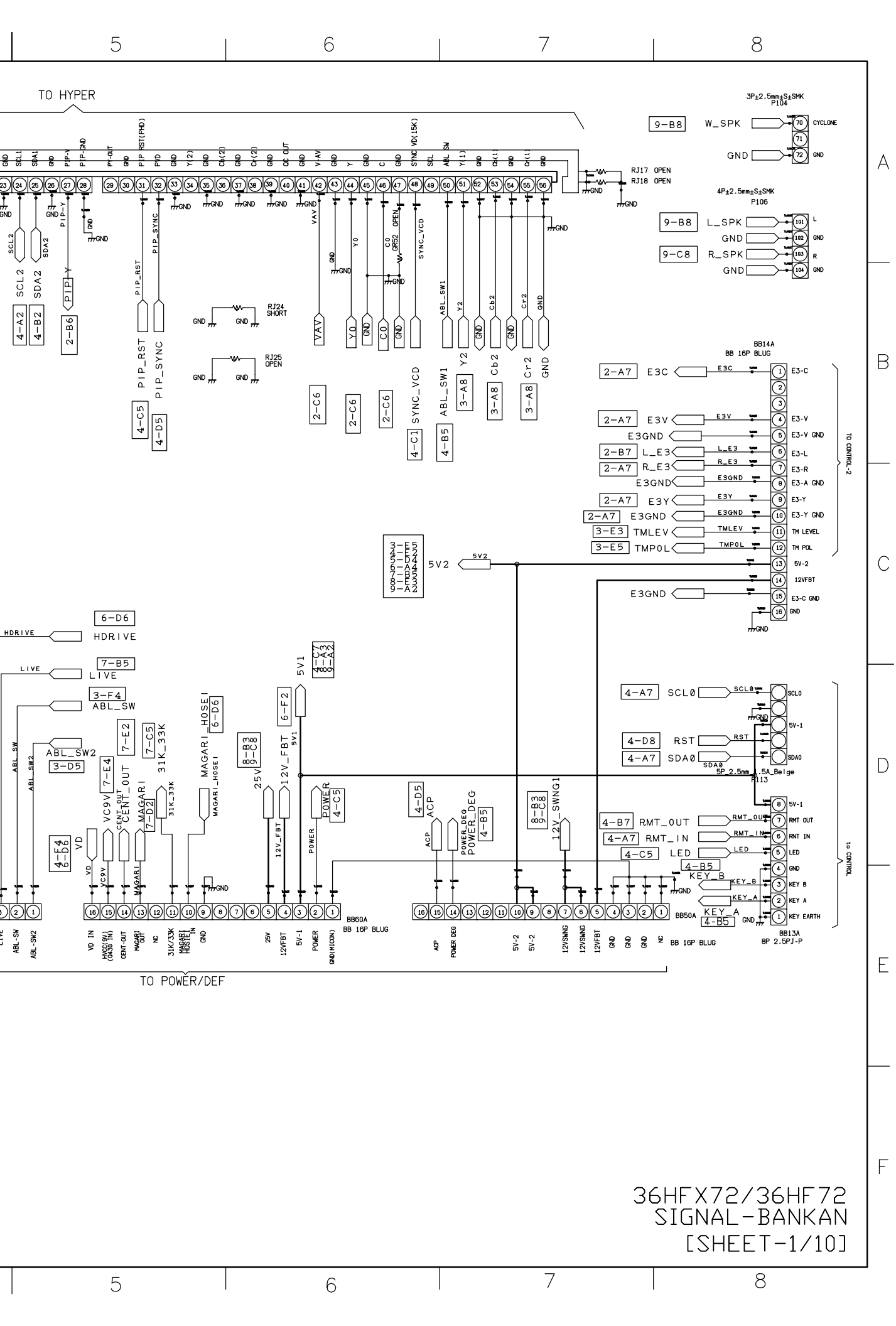
BB60A
BB 16P BLUG

BB50A
BB 16P BLUG

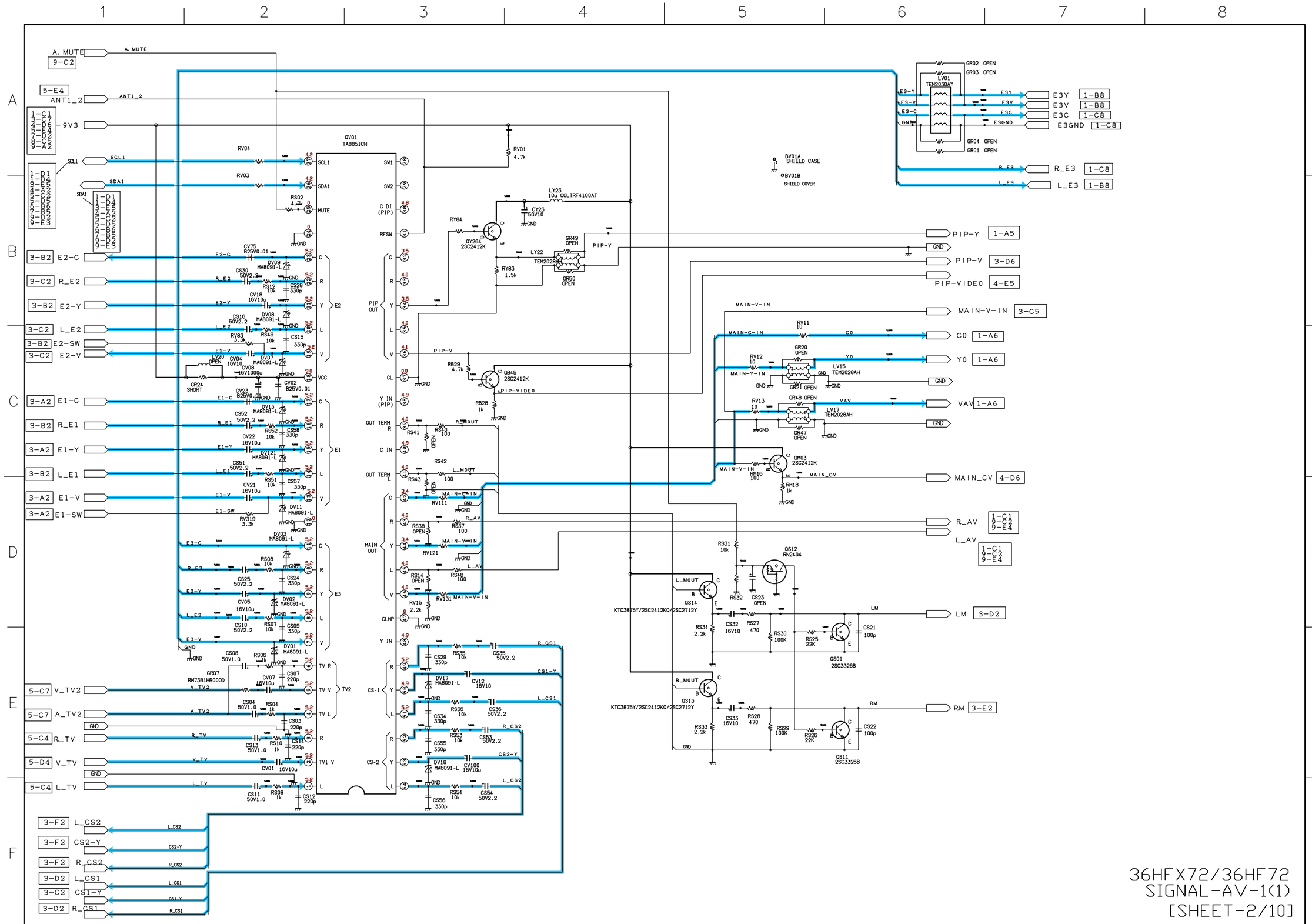
BB13A
8P 2.5PJ-P

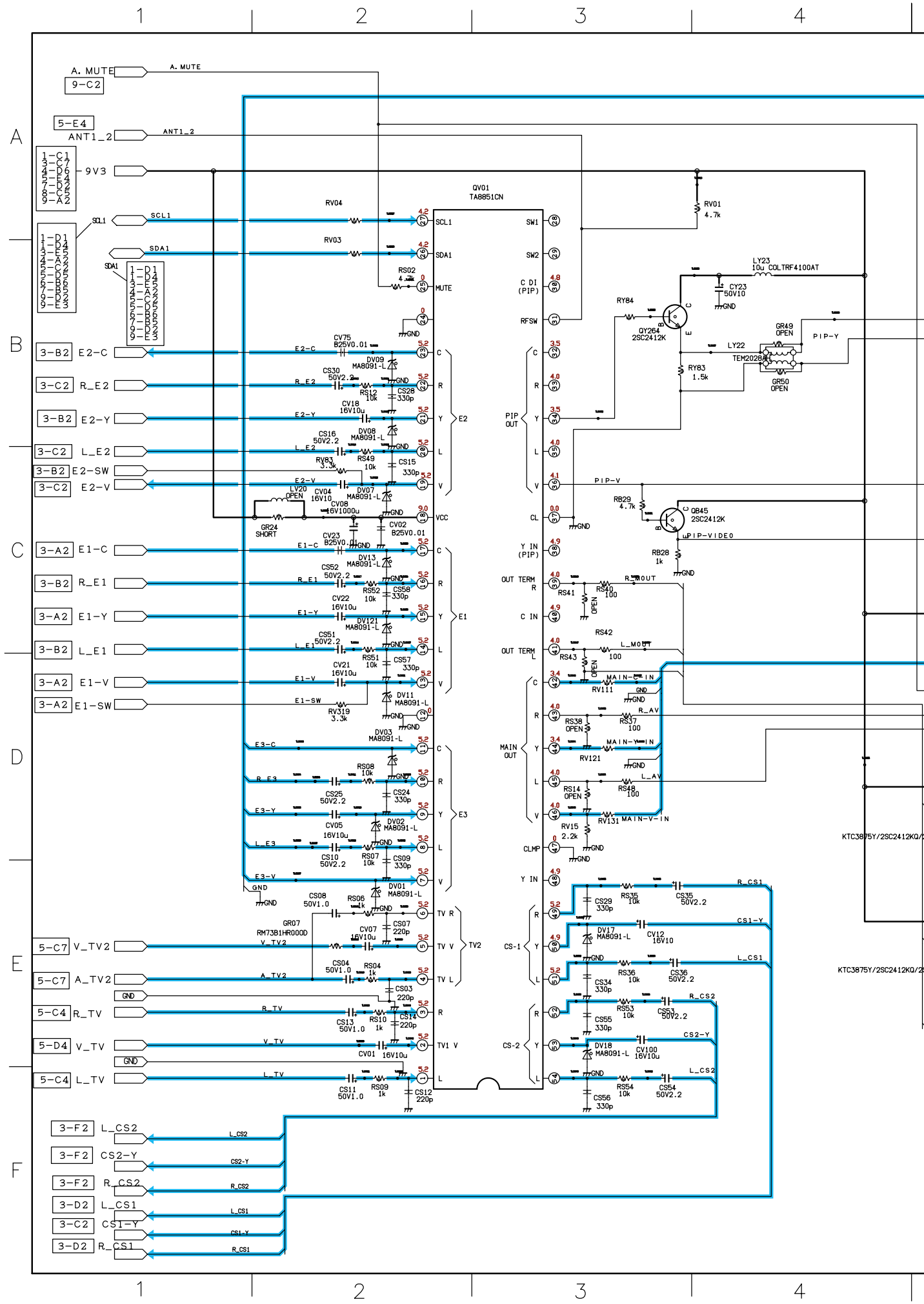
TO POWER/DEF

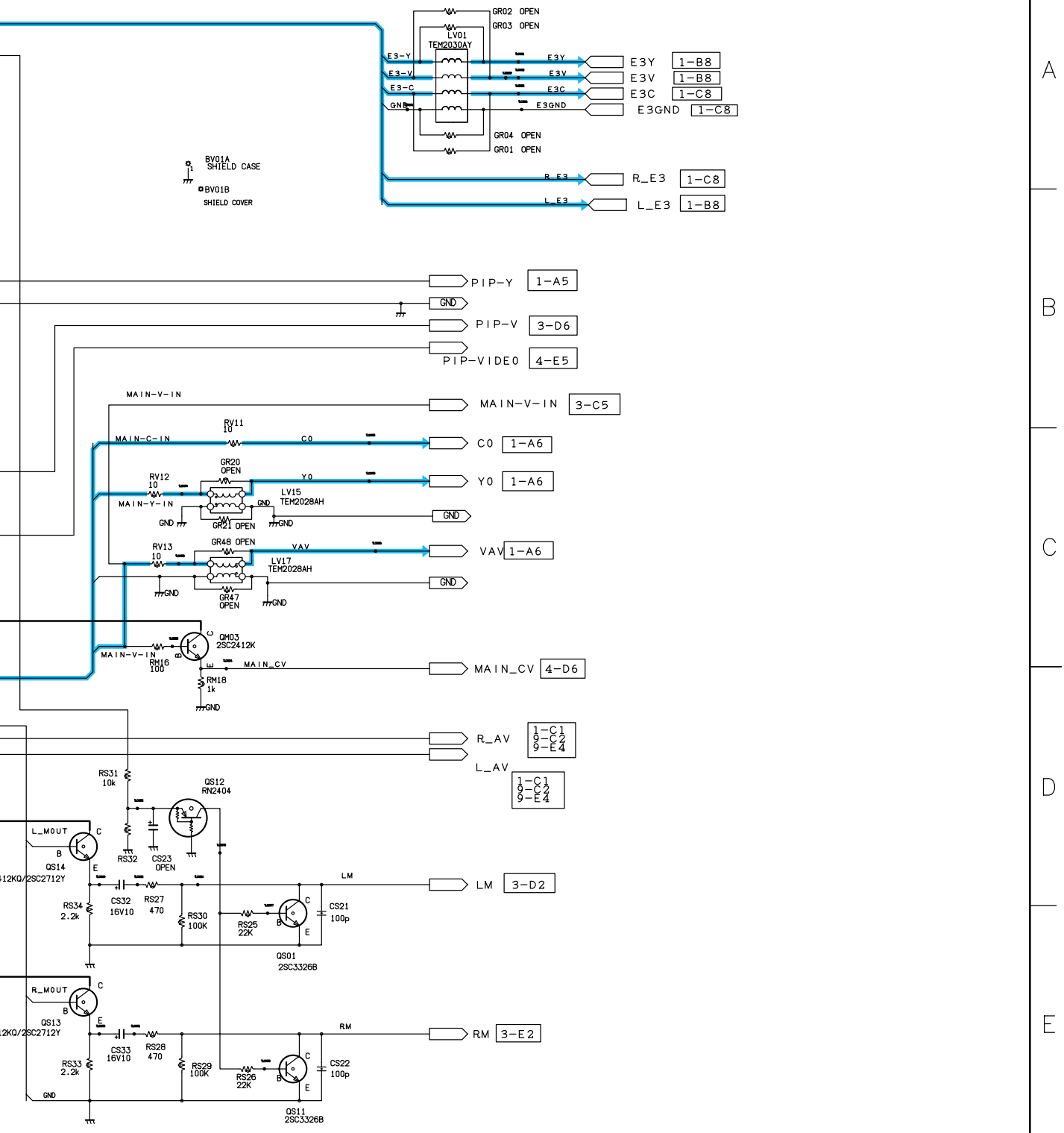

IN-2
OUT
IN-1
H003
RSU134X1
RF-SW
MVPU14
UZ01
RJ15
SHORT
RJ16
SHORT
PV12
SOCKET BB 56P
AC INPUT
BB80A
RF-SW
3P±2.5mm_1.5A_Beige
P105
ANTSW
5-E4
TUNER GND
9V3
TAL-L CONNECTOR
PD02A
GJ41
OPEN
GJ40
SHORT
12V_W0W
W IN(NC)
GND (AUDIO GND)
R_APRO
L_APRO
IO_1
TAC-L CONNECTOR
PD01A
R_AV
L_AV
GND (AUDIO GND AV)
IO_3
W0UT
9V3
GJ663 OPEN
GJ664 SHORT
IO_2
SCL1
SDA1
12V GND
UD01B
VM1
P704
3P±2.5mm±1.5A±Beige
TO VM
P101
7P±2.5mm±1.5A±Beige
B_BEP
G_BEP
R_BEP
9V1
TO CRT/D
ABL
AFC
V. BLK
SDA1
SCL1
32V
27V_AUDIO
BB70A
BB 16P BLUG
AUDIO VCC
AUDIO GND
32V
SCL1
SDA1
V.BLK
AFC
ABL
H.GND
HDRIVE
+9V-3
LIVE
ABL-SW
Y1
I1
Q1
DVDUP
DHDUP
DSCPOUT
BLK_UP
VM-MUTE
HD1-OUT
VD1-OUT
5V_HYPER
3. 3V2
9V2
SCL2



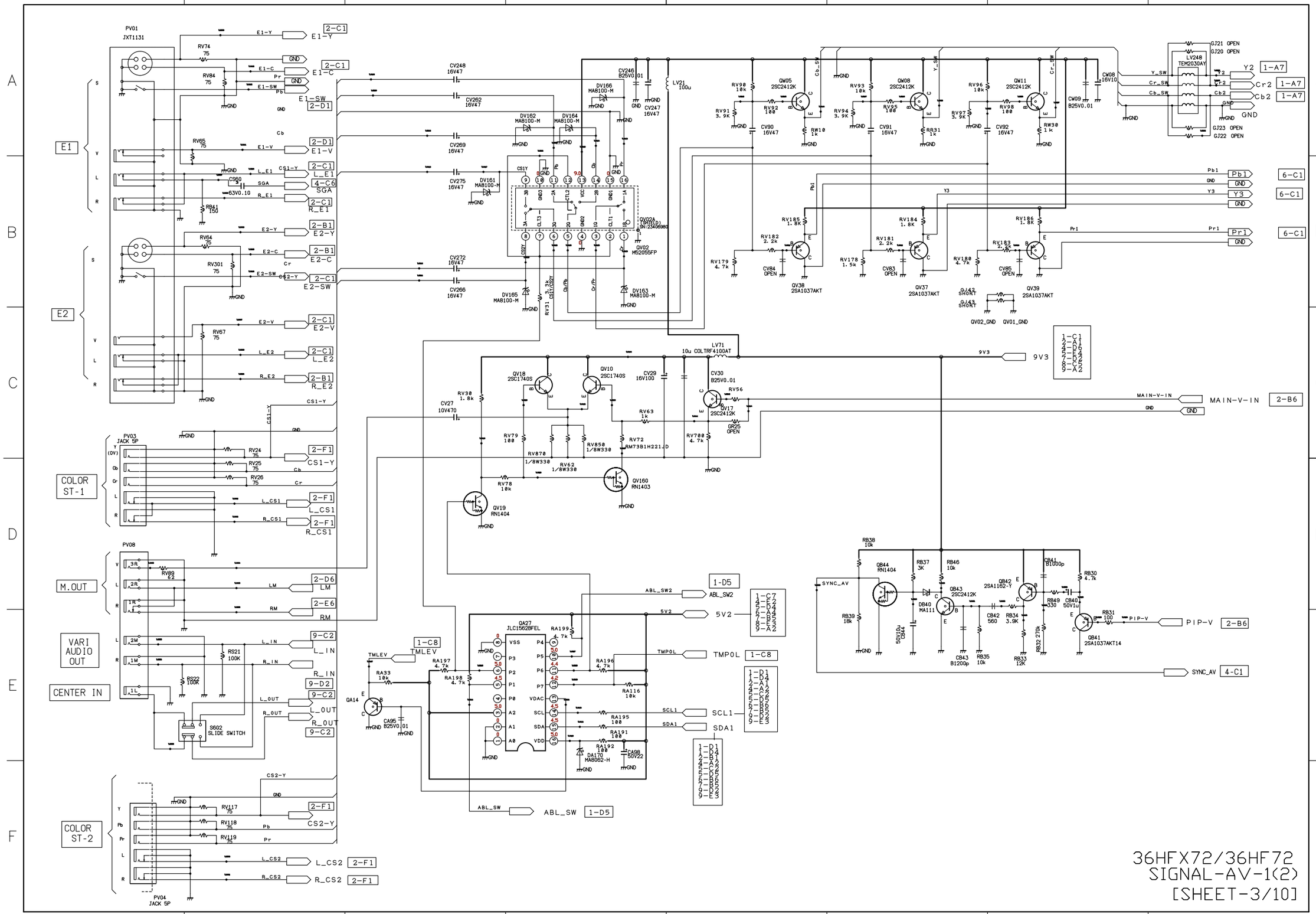
36HFX72/36HF72
SIGNAL-BANKAN
[SHEET-1/10]

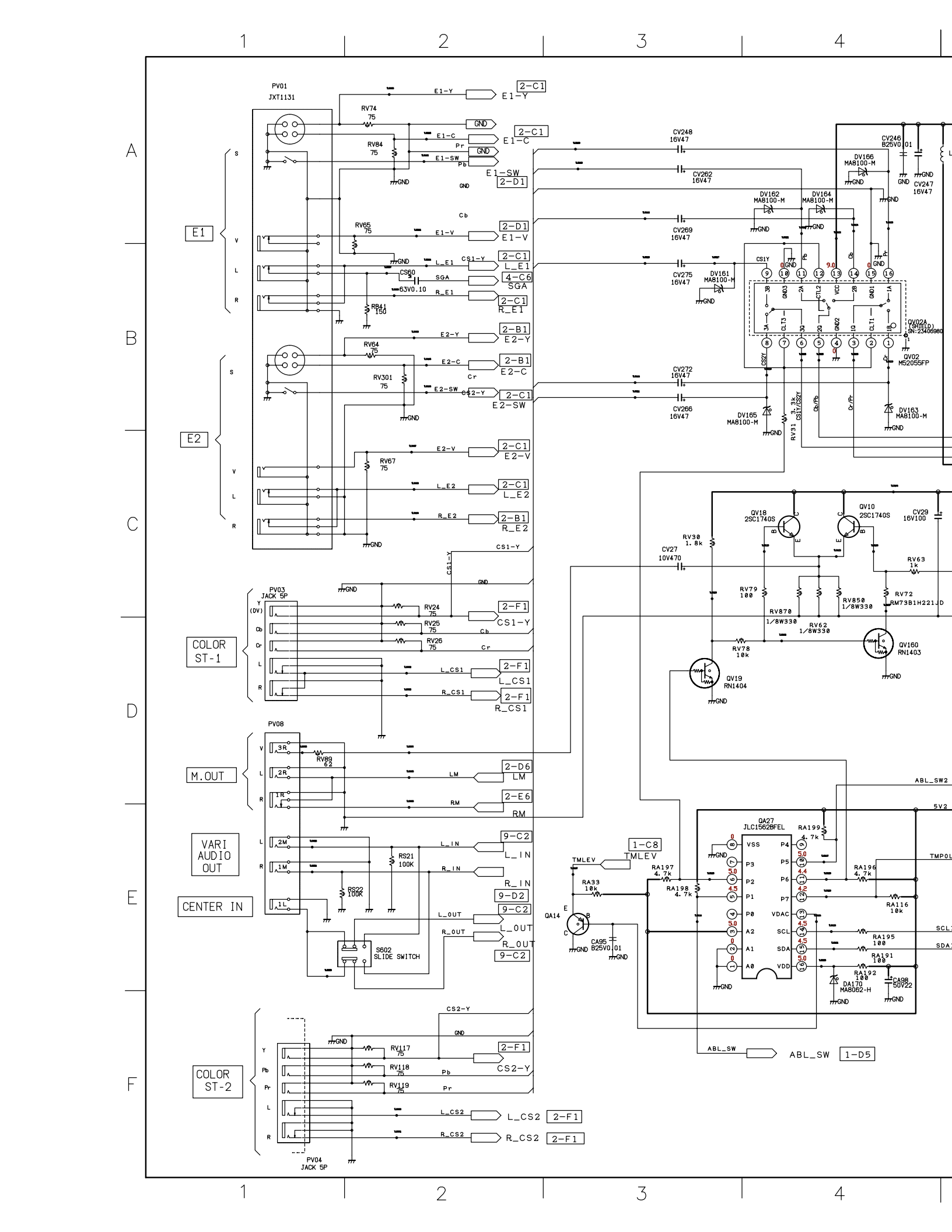

A. MUTE
ANT1_2
9V3
SCL1
SDA1
QV01
TA8851CN
RV04
RV03
RS02
CV75 B25V0.01
DV09 MA8091-L
CS30 50V2.2
RS12 10k
CS28 330p
CV18 16V10u
DV08 MA8091-L
CS16 50V2.2
RS49 10k
CS15 330p
RV83 3.3k
LV20 OPEN
CV04 16V10
DV07 MA8091-L
CV08 16V1000u
GR24 SHORT
CV02 B25V0.01
CV23 B25V0.01
DV13 MA8091-L
CS52 50V2.2
RS52 10k
CS58 330p
CV22 16V10u
DV121 MA8091-L
CS51 50V2.2
RS51 10k
CS57 330p
CV21 16V10u
DV11 MA8091-L
RV319 3.3k
DV03 MA8091-L
RS08 10k
CS25 50V2.2
CS24 330p
CV05 16V10u
DV02 MA8091-L
CS10 50V2.2
RS07 10k
CS09 330p
DV01 MA8091-L
CS08 50V1.0
RS06 1k
CV07 16V10u
GR07 RM73B1HR000D
CS04 50V1.0
RS04 1k
CS03 220p
CS13 50V1.0
RS10 1k
CS14 220p
CV01 16V10u
CS11 50V1.0
RS09 1k
CS12 220p
RV01 4.7k
LY23 10u COLTRF4100AT
CY23 50V10
QY84 2SC2412K
RY84
RY83 1.5k
LY22 TEM2028AY
GR49 OPEN
GR50 OPEN
QB45 2SC2412K
RB29 4.7k
RB28 1k
RS41
RS40 100
OPEN
RS42
RS43
RS39 100
RV111
RS38 OPEN
RS37 100
RV121
RS14 OPEN
RS48 100
RV131
RV15 2.2k
CS29 330p
DV17 MA8091-L
CS34 330p
RS36 10k
CS36 50V2.2
CS55 330p
RS53 10k
CS53 50V2.2
DV18 MA8091-L
CV100 16V10u
CS56 330p
RS54 10k
CS54 50V2.2
BV01A SHIELD CASE
BV01B SHIELD COVER
LV01 TEM2030AY
GR02 OPEN
GR03 OPEN
GR04 OPEN
GR01 OPEN
E3Y
E3V
E3C
E3GND
R_E3
L_E3
PIP-Y
PIP-V
PIP-VIDEO
MAIN-V-IN
RV11 10
MAIN-C-IN
C0
RV12 10
MAIN-Y-IN
Y0
LV15 TEM2028AH
GR20 OPEN
GR21 OPEN
VAV
RV13 10
LV17 TEM2028AH
GR48 OPEN
GR47 OPEN
QM03 2SC2412K
RM16 100
RM18 1k
MAIN_CV
R_AV
L_AV
QS12 RN2404
RS31 10k
RS32
CS23 OPEN
QS14 KTC3875Y/2SC2412KQ/2SC2712Y
RS34 2.2k
CS32 16V10
RS27 470
RS30 100K
RS25 22K
CS21 100p
QS01 2SC3326B
QS13 KTC3875Y/2SC2412KQ/2SC2712Y
RS33 2.2k
CS33 16V10
RS28 470
RS29 100K
RS26 22K
CS22 100p
QS11 2SC3326B
LM
RM
E3Y 1-B8
E3V 1-B8
E3C 1-C8
E3GND 1-C8
R_E3 1-C8
L_E3 1-B8
PIP-Y 1-A5
PIP-V 3-D6
PIP-VIDEO 4-E5
MAIN-V-IN 3-C5
C0 1-A6
Y0 1-A6
VAV 1-A6
MAIN_CV 4-D6
R_AV 1-C1 0-C2 9-E4
L_AV 1-C1 0-C2 9-E4
LM 3-D2
RM 3-E2
A. MUTE 9-C2
ANT1_2 5-E4
9V3 1-C1 3-C2 4-D6 5-E4 7-D2 8-C5 9-A2
SCL1 1-D1 1-D4 3-E5 4-A2 5-C2 5-D5 6-B5 7-B5 8-D2 9-E3
SDA1 1-D1 1-D4 3-E5 4-A2 5-C2 5-D5 6-B5 7-B5 8-D2 9-E3
E2-C 3-B2
R_E2 3-C2
E2-Y 3-B2
L_E2 3-C2
E2-SW 3-B2
E2-V 3-C2
E1-C 3-A2
R_E1 3-B2
E1-Y 3-A2
L_E1 3-B2
E1-V 3-A2
E1-SW 3-A2
V_TV2 5-C7
A_TV2 5-C7
R_TV 5-C4
V_TV 5-D4
L_TV 5-C4
L_CS2 3-F2
CS2-Y 3-F2
R_CS2 3-F2
L_CS1 3-D2
CS1-Y 3-C2
R_CS1 3-D2
36HFX72/36HF72
SIGNAL-AV-1(1)
[SHEET-2/10]

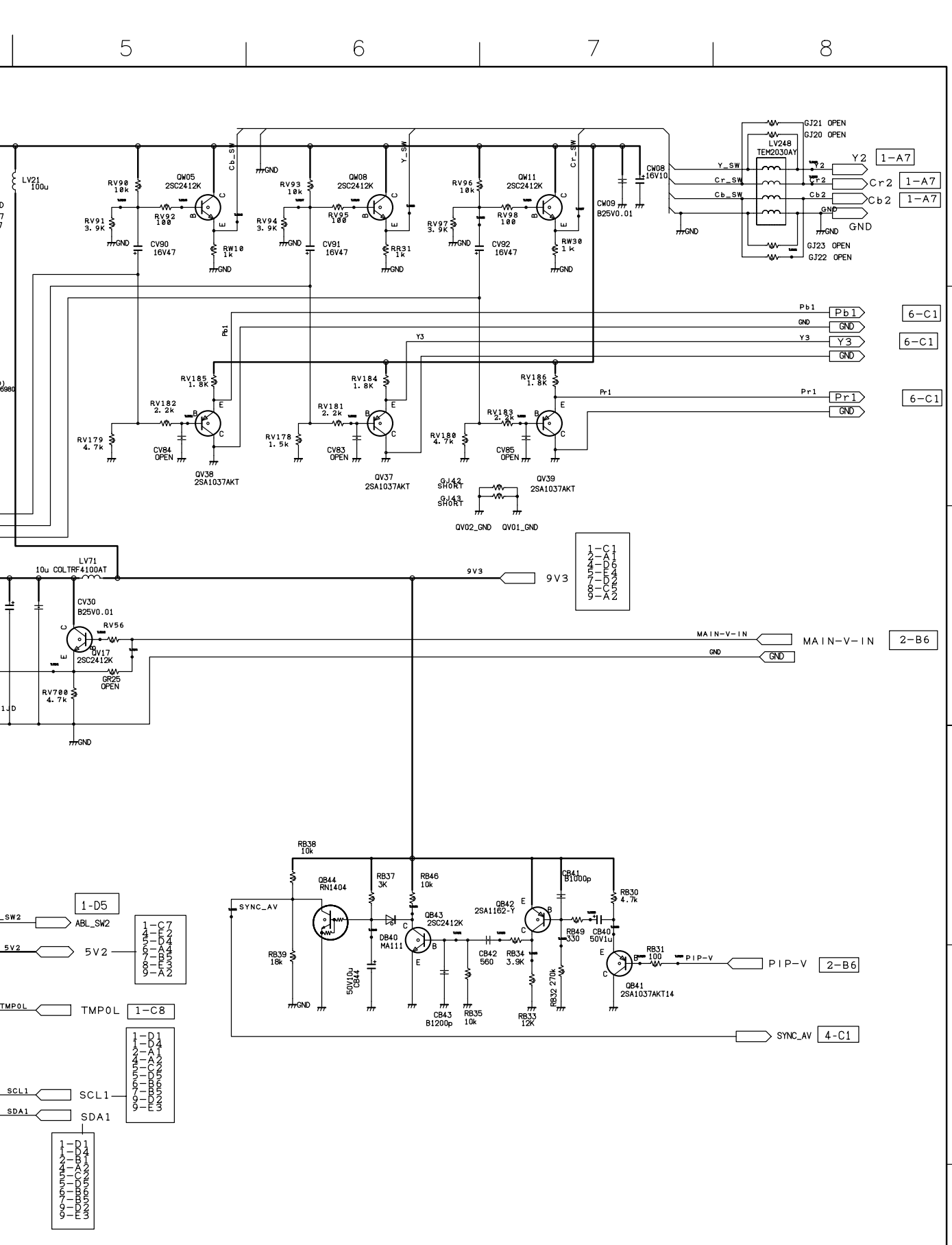

A. MUTE
9-C2
A. MUTE
5-E4
ANT1_2
ANT1_2
1-C1
3-C7
4-D6
5-D4
7-D2
8-C5
9-A2
9V3
SCL1
1-D1
1-D4
3-E5
4-A2
5-C2
5-D5
6-B6
7-B5
9-D2
9-E3
SDA1
QV01
TA8851CN
RV04
RV03
RS02
4.7k
MUTE
SCL1
SDA1
SW1
SW2
C DI (PIP)
RFSW
RV01
4.7k
LY23
10u COLTRF4100AT
CY23
50V10
RY84
QY264
2SC2412K
LY22
TEM2028A
GR49
OPEN
GR50
OPEN
RY83
1.5k
PIP-Y
3-B2 E2-C
3-C2 R_E2
3-B2 E2-Y
3-C2 L_E2
3-B2 E2-SW
3-C2 E2-V
CV75 B25V0.01
E2-C
DV09 MA8091-L
CS30 50V2.2
R_E2
RS12 10k
CS28 330p
CV18 16V10u
E2-Y
DV08 MA8091-L
CS16 50V2.2
L_E2
RS49 10k
CS15 330p
RV83 3.3k
E2-V
DV07 MA8091-L
LV20 OPEN
CV04 16V10
CV08 16V1000u
GR24 SHORT
CV02 B25V0.01
E2
C
R
Y
L
V
VCC
PIP OUT
C
R
Y
L
V
CL
PIP-V
RB29
4.7k
QB45
2SC2412K
PIP-VIDEO
RB28
1k
3-A2 E1-C
3-B2 R_E1
3-A2 E1-Y
3-B2 L_E1
3-A2 E1-V
3-A2 E1-SW
CV23 B25V0.01
E1-C
DV13 MA8091-L
CS52 50V2.2
R_E1
RS52 10k
CS58 330p
CV22 16V10u
E1-Y
DV121 MA8091-L
CS51 50V2.2
L_E1
RS51 10k
CS57 330p
CV21 16V10u
E1-V
DV11 MA8091-L
RV319 3.3k
E1-SW
E1
Y IN (PIP)
OUT TERM R
C IN
OUT TERM L
R_MOUT
RS41
RS40 100
OPEN
RS42
RS43
L_MOUT
100
OPEN
MAIN-C-IN
RV111
GND
R_AV
RS38 OPEN
RS37 100
MAIN-Y-IN
RV121
L_AV
RS14 OPEN
RS48 100
RV131 MAIN-V-IN
RV15 2.2k
CLMP
MAIN OUT
KTC3875Y/2SC2412KQ/2
D
E3-C
DV03 MA8091-L
R_E3
RS08 10k
CS25 50V2.2
E3-Y
DV02 MA8091-L
CV05 16V10u
L_E3
RS07 10k
CS10 50V2.2
CS09 330p
E3-V
DV01 MA8091-L
CS08 50V1.0
RS06 1k
CS24 330p
E3
TV R
TV V
TV L
TV2
GR07 RM73B1HR000D
V_TV2
CV07 16V10u
CS07 220p
A_TV2
CS04 50V1.0
RS04 1k
CS03 220p
R_TV
CS13 50V1.0
RS10 1k
CS14 220p
V_TV
CV01 16V10u
L_TV
CS11 50V1.0
RS09 1k
CS12 220p
TV1 V
Y IN
CS-1
CS-2
R_CS1
CS1-Y
L_CS1
R_CS2
CS2-Y
L_CS2
RS35 10k
CS35 50V2.2
CS29 330p
DV17 MA8091-L
CV12 16V10
RS36 10k
CS36 50V2.2
CS34 330p
RS53 10k
CS53 50V2.2
CS55 330p
DV18 MA8091-L
CV100 16V10u
RS54 10k
CS54 50V2.2
CS56 330p
5-C7 V_TV2
5-C7 A_TV2
GND
5-C4 R_TV
5-D4 V_TV
GND
5-C4 L_TV
E
3-F2 L_CS2
3-F2 CS2-Y
3-F2 R_CS2
3-D2 L_CS1
3-C2 CS1-Y
3-D2 R_CS1
F
1
2
3
4
A
B
C
D
E
F



36HFX72/36HF72
SIGNAL-AV-1(1)
[SHEET-2/10]

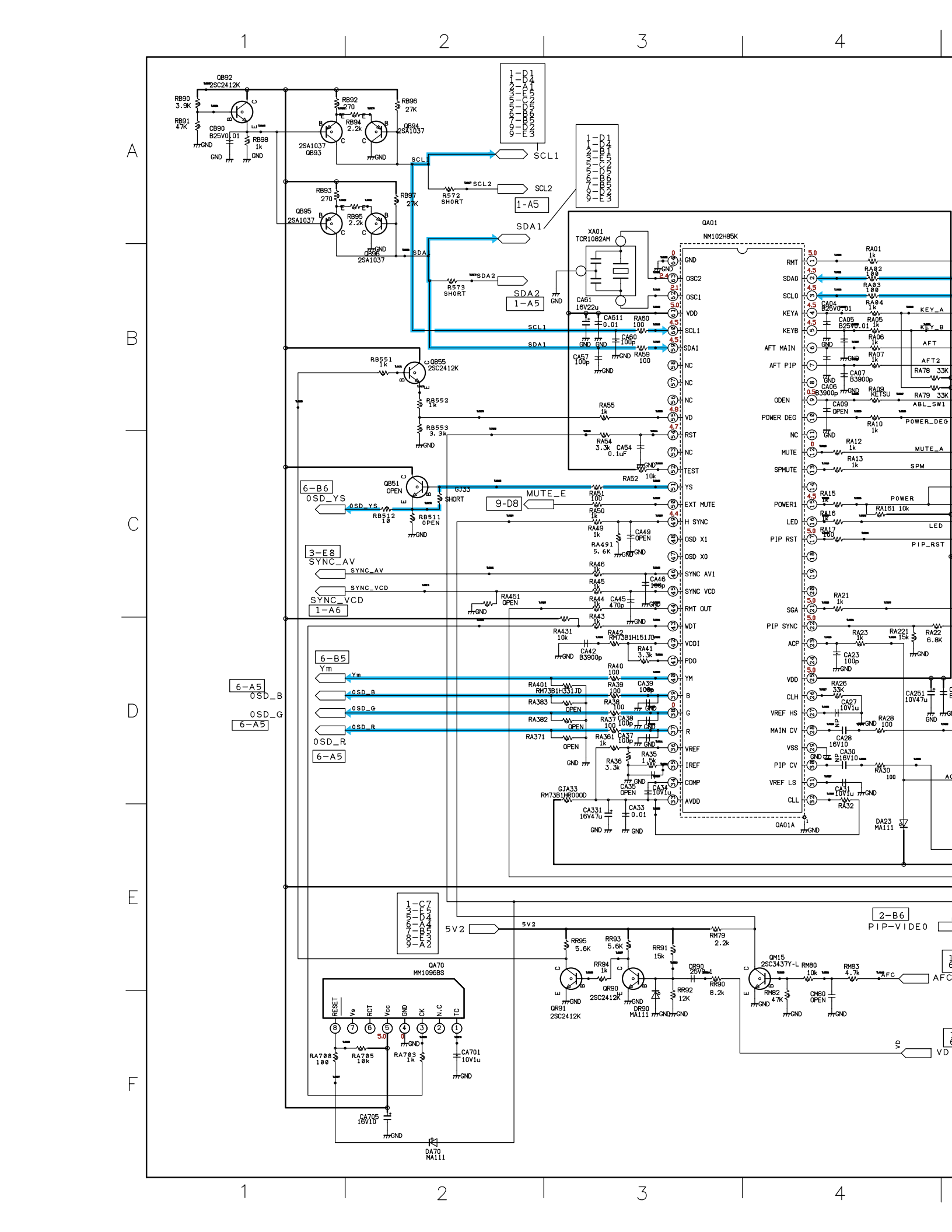

PV01
JXT1131
E1
E2
COLOR ST-1
COLOR ST-2
M.OUT
VARI AUDIO OUT
CENTER IN
PV03
JACK 5P
PV08
PV04
JACK 5P
S602
SLIDE SWITCH
QV02
MS2055FP
QA27
JLC1562BFEL
QV02A
QV02B
QV38
2SA1037AKT
QV37
2SA1037AKT
QV39
2SA1037AKT
QV18
2SC1740S
QV10
2SC1740S
QV17
2SC2412K
QV160
RN1403
QV19
RN1404
QW05
2SC2412K
QW08
2SC2412K
QW11
2SC2412K
QA14
QB44
RN1404
QB40
MA111
QB43
2SC2412K
QB42
2SA1162-Y
QB41
2SA1037AKT14
LV71
10u COLTRF4100AT
LV21
100u
LV248
TEM2030AY
DA170
MA8062-H
DV162
MA8100-M
DV164
MA8100-M
DV166
MA8100-M
DV161
MA8100-M
DV165
MA8100-M
DV163
MA8100-M
E1-Y
E1-C
E1-SW
E1-V
L_E1
SGA
R_E1
E2-Y
E2-C
E2-SW
E2-V
L_E2
R_E2
CS1-Y
L_CS1
R_CS1
CS2-Y
L_CS2
R_CS2
L_IN
R_IN
L_OUT
R_OUT
LM
RM
CS1Y
CS2Y
TMLEV
TMP0L
ABL_SW1
ABL_SW2
ABL_SW
5V2
9V3
SCL1
SDA1
MAIN-V-IN
PIP-V
SYNC_AV
Y2
Cr2
Cb2
Y3
Pb1
Pr1
GND
2-C1
2-D1
2-B1
2-C1
4-C6
2-C1
2-B1
2-B1
2-C1
2-C1
2-C1
2-B1
2-F1
2-F1
2-F1
2-F1
2-D6
2-E6
9-C2
9-D2
9-C2
9-C2
2-F1
2-F1
2-F1
1-A7
1-A7
1-A7
6-C1
6-C1
6-C1
1-D5
1-C8
2-B6
4-C1
36HFX72/36HF72
SIGNAL-AV-1(2)
[SHEET-3/10]

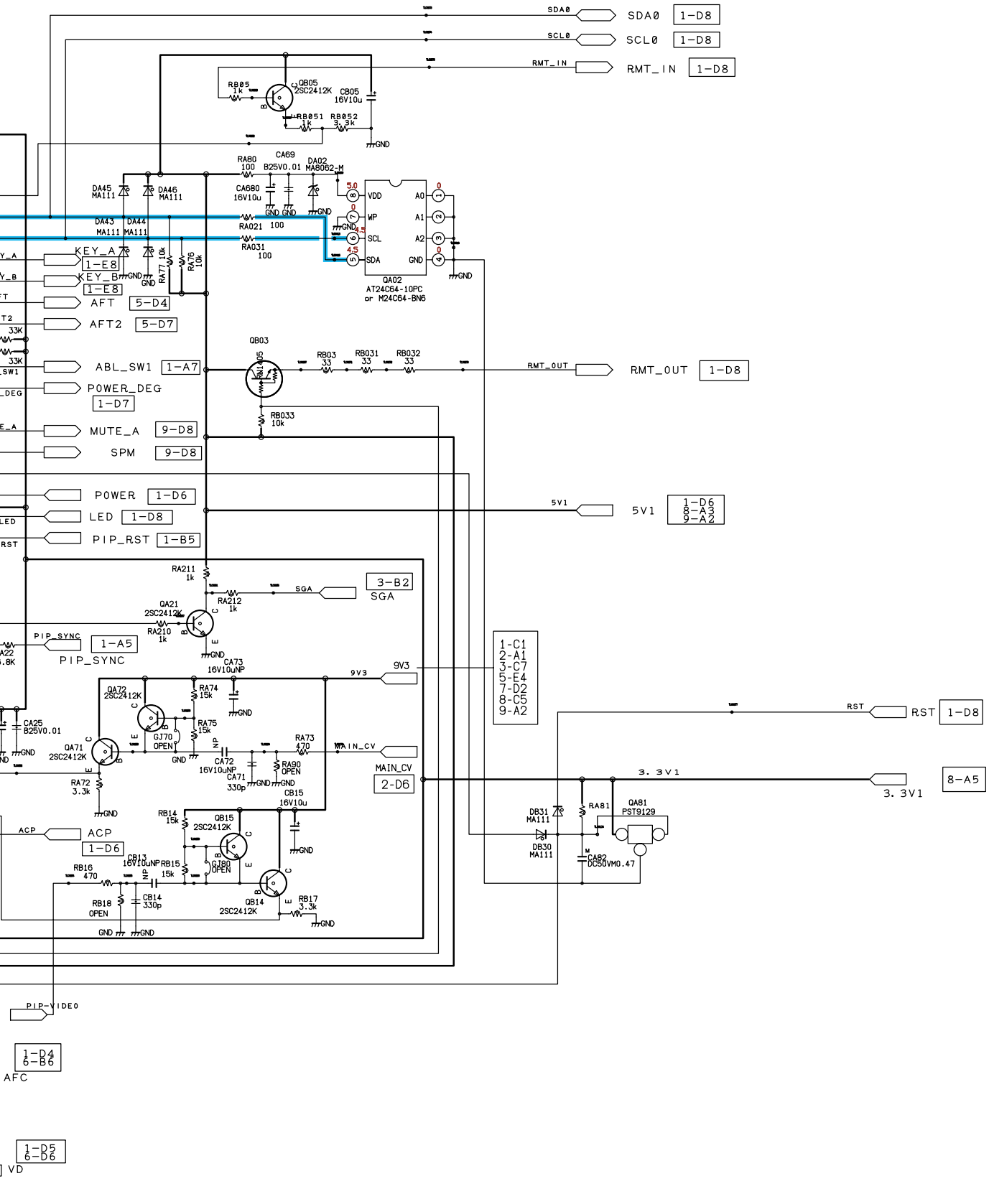

PV01
JXT1131
E1
E2
COLOR ST-1
COLOR ST-2
M.OUT
VARI AUDIO OUT
CENTER IN
PV03
JACK 5P
PV08
PV04
JACK 5P
S602
SLIDE SWITCH
QV02A
(SHIELD)
SN:25406980
QV02
M52055FP
QA27
JLC1562BFEL
QV18
2SC1740S
QV10
2SC1740S
QV19
RN1404
QV160
RN1403
DV161
MA8100-M
DV162
MA8100-M
DV163
MA8100-M
DV164
MA8100-M
DV165
MA8100-M
DV166
MA8100-M
DA170
MA8062-H
E1-Y
E1-C
E1-SW
E2-Y
E2-C
E2-SW
E1-V
E2-V
L_E1
R_E1
L_E2
R_E2
CS1-Y
CS2-Y
L_CS1
R_CS1
L_CS2
R_CS2
LM
RM
L_IN
R_IN
L_OUT
R_OUT
TMLEV
ABL_SW
SGA
Cb
Cr
Pb
Pr
GND
5V2
SCL
SDA
TMP0L
ABL_SW2



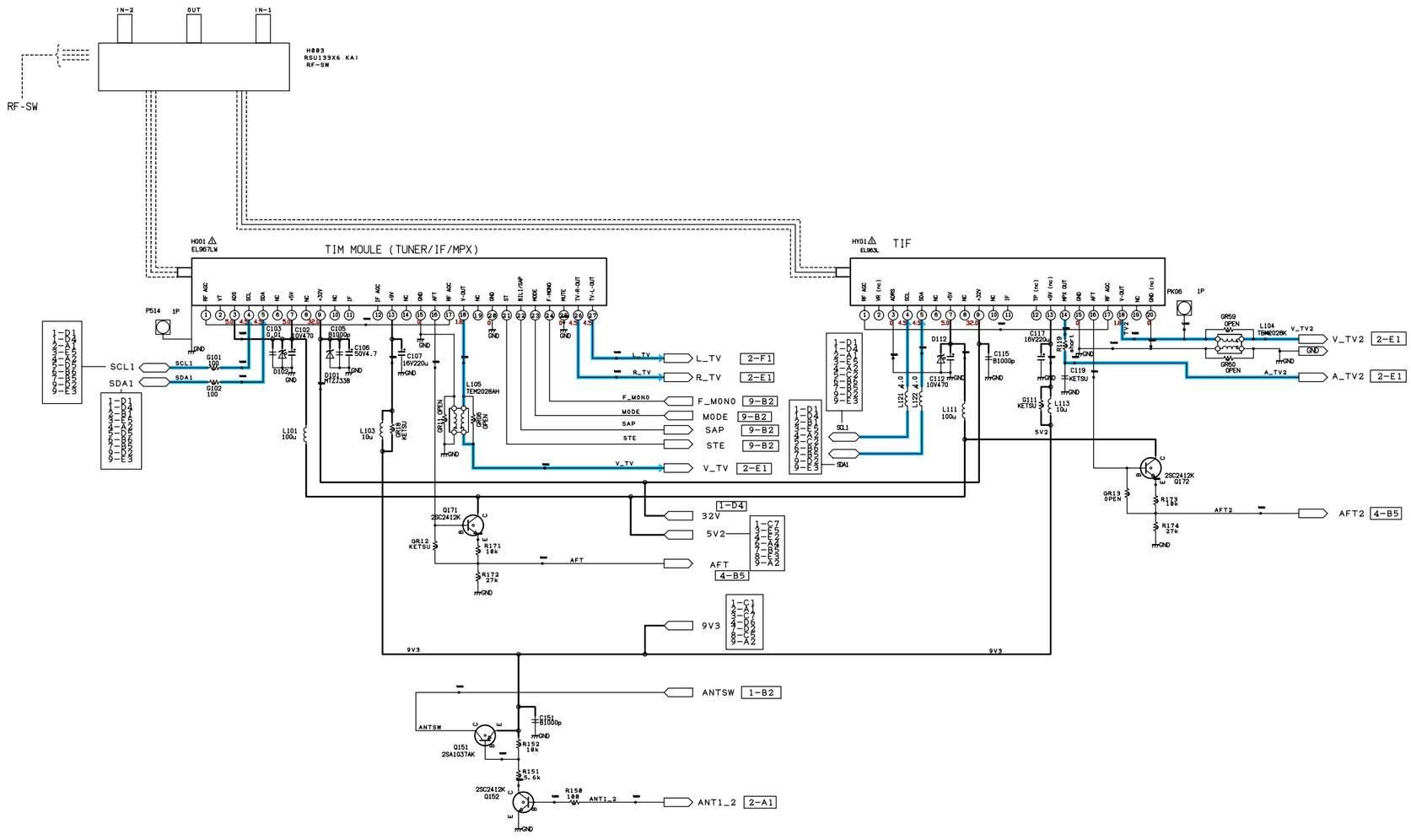
36HFX72/36HF72
SIGNAL-AV-1(2)
[SHEET-3/10]

36HFX72/36HF72
SIGNAL-MAICON-1
[SHEET-4/10]

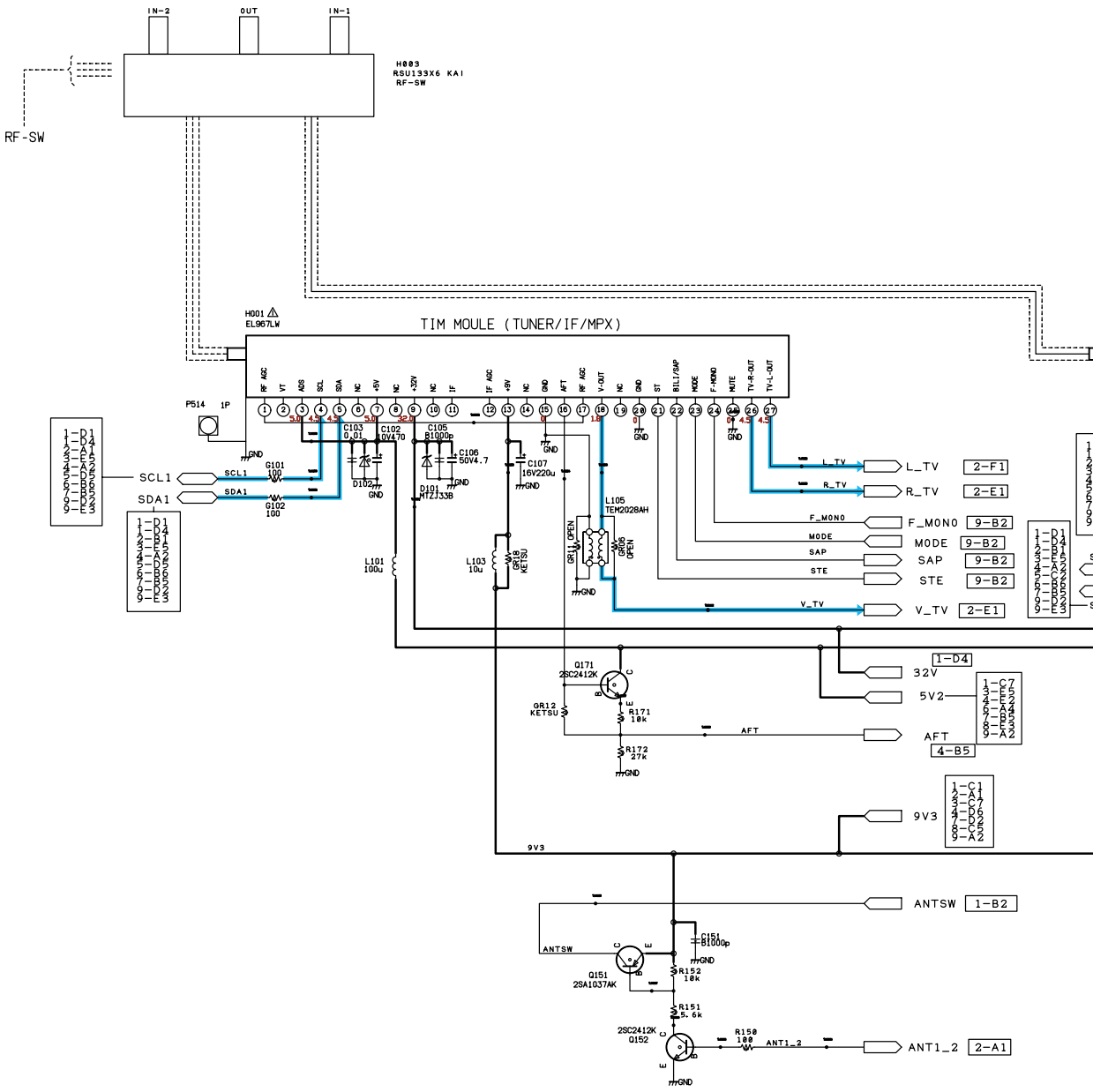

QB92
2SC2412K
RB90
3.9K
RB91
47K
CB90
B25V0.01
RB98
1k
GND
RB92
270
RB94
2.2k
RB96
27K
QB94
2SA1037
2SA1037
QB93
RB93
270
RB95
2.2k
RB97
27K
QB95
2SA1037
QB96
2SA1037
SCL1
SCL2
R572
SHORT
SDA1
SDA2
R573
SHORT
1-A5
1-D1
1-D4
2-A1
3-E5
5-C2
5-D5
6-B6
7-B5
9-D2
9-E3
XA01
TCR1082AM
CA61
16V22u
CA611
0.01
RA60
100
CA60
100p
CA57
100p
RA59
100
QA01
NM102H85K
GND
OSC2
OSC1
VDD
SCL1
SDA1
NC
NC
NC
VD
RST
NC
TEST
YS
EXT MUTE
H SYNC
OSD X1
OSD X0
SYNC AV1
SYNC VCD
RMT OUT
WDT
VCOI
PDO
YM
B
G
R
VREF
IREF
COMP
AVDD
RMT
SDA0
SCL0
KEYA
KEYB
AFT MAIN
AFT PIP
ODEN
POWER DEG
NC
MUTE
SPMUTE
POWER1
LED
PIP RST
SGA
PIP SYNC
ACP
VDD
CLH
VREF HS
MAIN CV
VSS
PIP CV
VREF LS
CLL
QA01A
RA01
1k
RA02
100
RA03
100
RA04
1k
KEY_A
RA05
1k
KEY_B
RA06
1k
AFT
RA07
1k
AFT2
RA78
33K
CA07
B3900p
CA06
B3900p
RA09
KETSU
RA79
33K
ABL_SW1
CA09
OPEN
RA10
1k
POWER_DEG
RA12
1k
MUTE_A
RA13
1k
SPM
RA15
1k
POWER
RA161
10k
RA16
1k
LED
RA17
100
PIP_RST
RA21
1k
RA23
1k
RA221
15k
RA22
6.8K
CA23
100p
RA26
33K
CA27
10V1u
RA28
100
CA28
16V10
CA30
16V10
RA30
100
CA31
10V1u
RA32
DA23
MA111
CA251
10V47u
RB551
1k
QB55
2SC2412K
RB552
1k
RB553
3.3k
RA55
1k
RA54
3.3k
CA54
0.1uF
RA52
10k
6-B6
OSD_YS
QB51
OPEN
GJ33
SHORT
MUTE_E
9-D8
RB512
10
RB511
OPEN
RA51
100
RA50
1k
RA49
1k
CA49
OPEN
RA491
5.6K
3-E8
SYNC_AV
SYNC_VCD
1-A6
RA451
OPEN
RA446
1k
RA445
1k
CA46
100p
RA444
CA45
470p
RA443
RA431
10k
RA442
RM73B1H151JD
CA42
B3900p
RA441
3.3k
6-B5
Ym
OSD_B
OSD_G
OSD_R
6-A5
RA440
100
RA439
100
CA39
100p
RA401
RM73B1H331JD
RA383
OPEN
RA438
100
RA382
OPEN
RA437
100
CA38
100p
RA371
OPEN
RA361
1k
CA37
100p
RA435
1.5k
RA436
3.3k
CA35
OPEN
CA34
10V1u
GJA33
RM73B1HR000D
CA331
16V47u
CA33
0.01
1-C7
1-E5
1-D4
1-A4
1-B5
1-E3
1-A2
5V2
2-B6
PIP-VIDEO
RR95
5.6K
RR93
5.6K
RR91
15k
RM79
2.2k
RR94
1k
QR90
2SC2412K
CR90
25V0.1
RR92
12K
RR90
8.2k
QR91
2SC2412K
DR90
MA111
QM15
2SC3437Y-L
RM80
10k
RM83
4.7k
RM82
47K
CM80
OPEN
AFC
VD
QA70
MM1096BS
RESET
Vs
RCT
Vcc
GND
CK
N.C
TC
RA708
100
RA705
10k
RA703
1k
CA701
10V1u
CA705
16V10
DA70
MA111

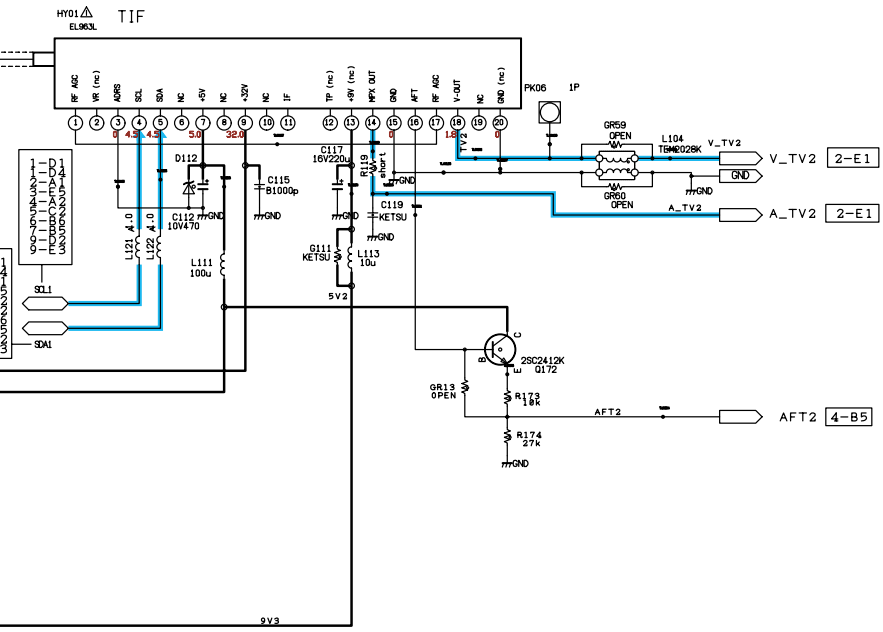


36HFX72/36HF72
SIGNAL-MAICON-1
[SHEET-4/10]



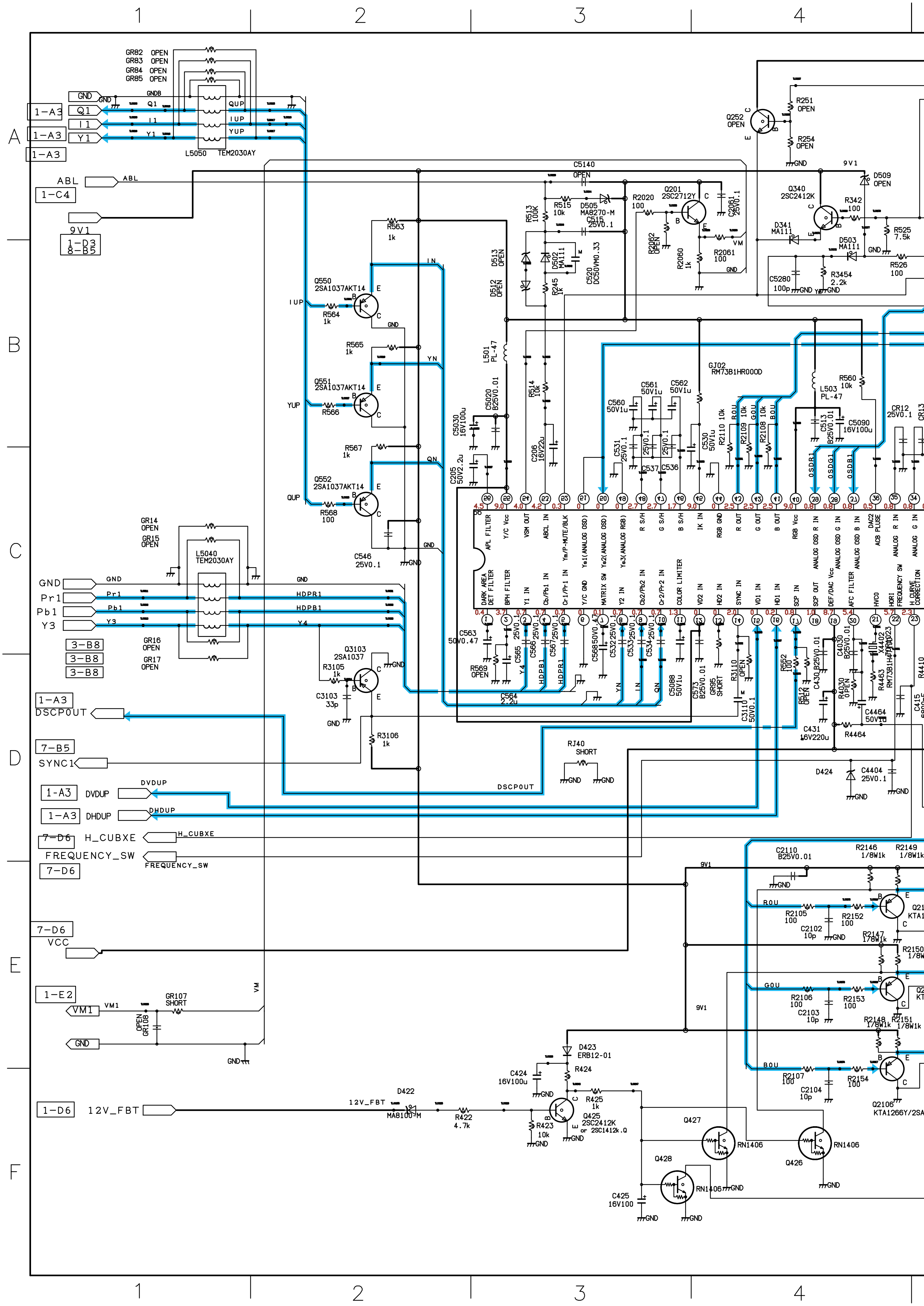
36HFX72/36HF72
SIGNAL-IF
[SHEET-5/10]


IN-2
OUT
IN-1
H003
RSU133X6 KAI
RF-SW
RF-SW
H001
EL967LW
TIM MOULE (TUNER/IF/MPX)
RF AGC
VT
ADS
SCL
SDA
NC
+5V
NC
+32V
NC
IF
IF AGC
+5V
NC
GND
AFT
RF AGC
V-OUT
NC
GND
ST
BILI/SAP
MODE
F-MONO
MUTE
TV-R-OUT
TV-L-OUT
P514
1P
SCL1
SDA1
G101
100
G102
100
C103
0.01
C102
10V470
C105
B1000p
C106
50V4.7
C107
16V220u
D101
MTZJ33B
D102
L101
100u
L103
10u
L105
TEM2028AH
L_TV
R_TV
F_MONO
MODE
SAP
STE
V_TV
L_TV
2-F1
R_TV
2-E1
F_MONO
9-B2
MODE
9-B2
SAP
9-B2
STE
9-B2
V_TV
2-E1
Q171
2SC2412K
GR12
KETSU
R171
10k
R172
27k
AFT
AFT
4-B5
1-D4
32V
5V2
9V3
9V3
ANTSW
1-B2
ANTSW
Q151
2SA1037AK
C151
B1000p
R152
10k
R151
5.6k
2SC2412K
Q152
R150
100
ANT1_2
ANT1_2
2-A1

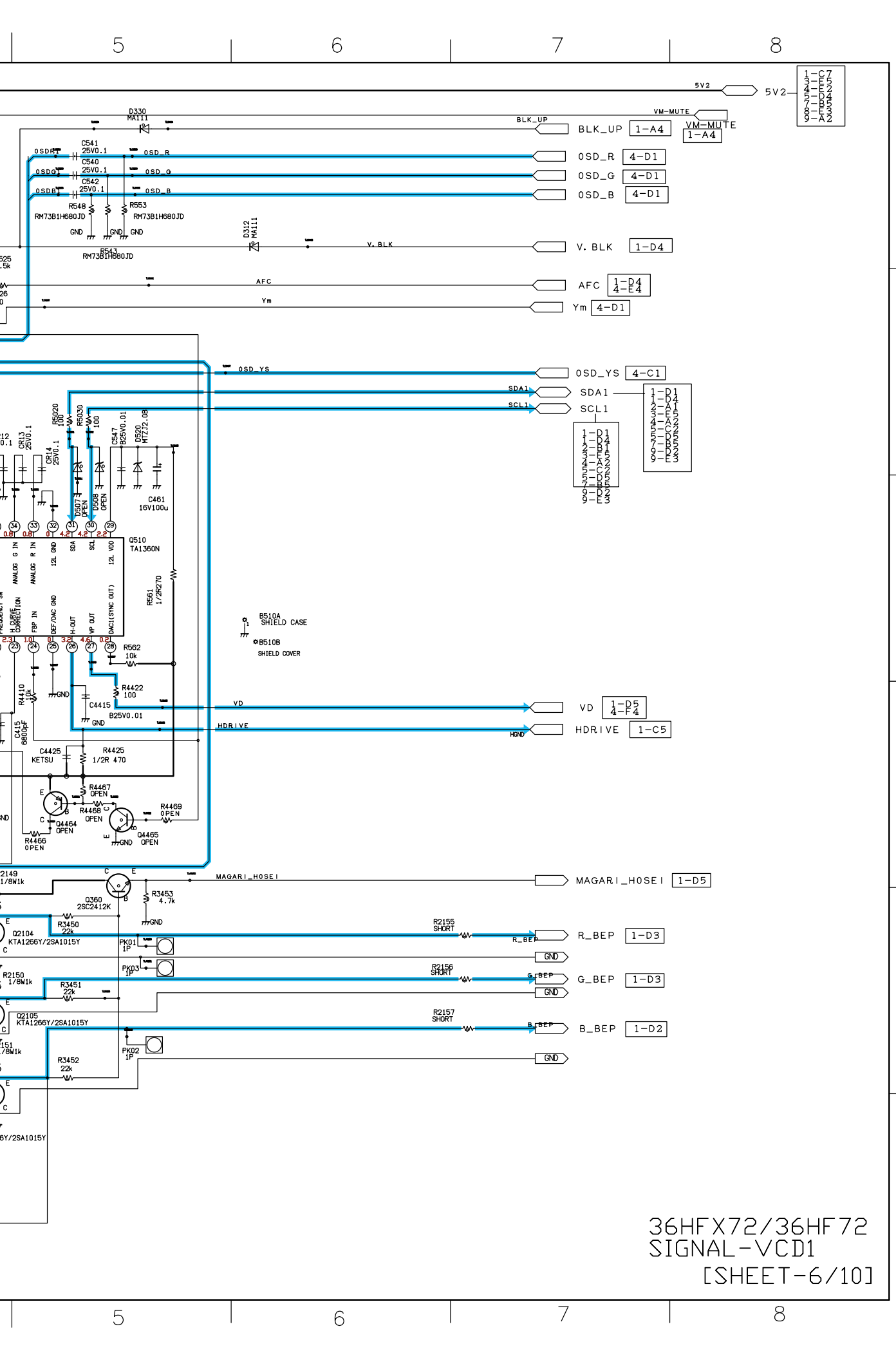


36HFX72/36HF72
SIGNAL-IF
[SHEET-5/10]

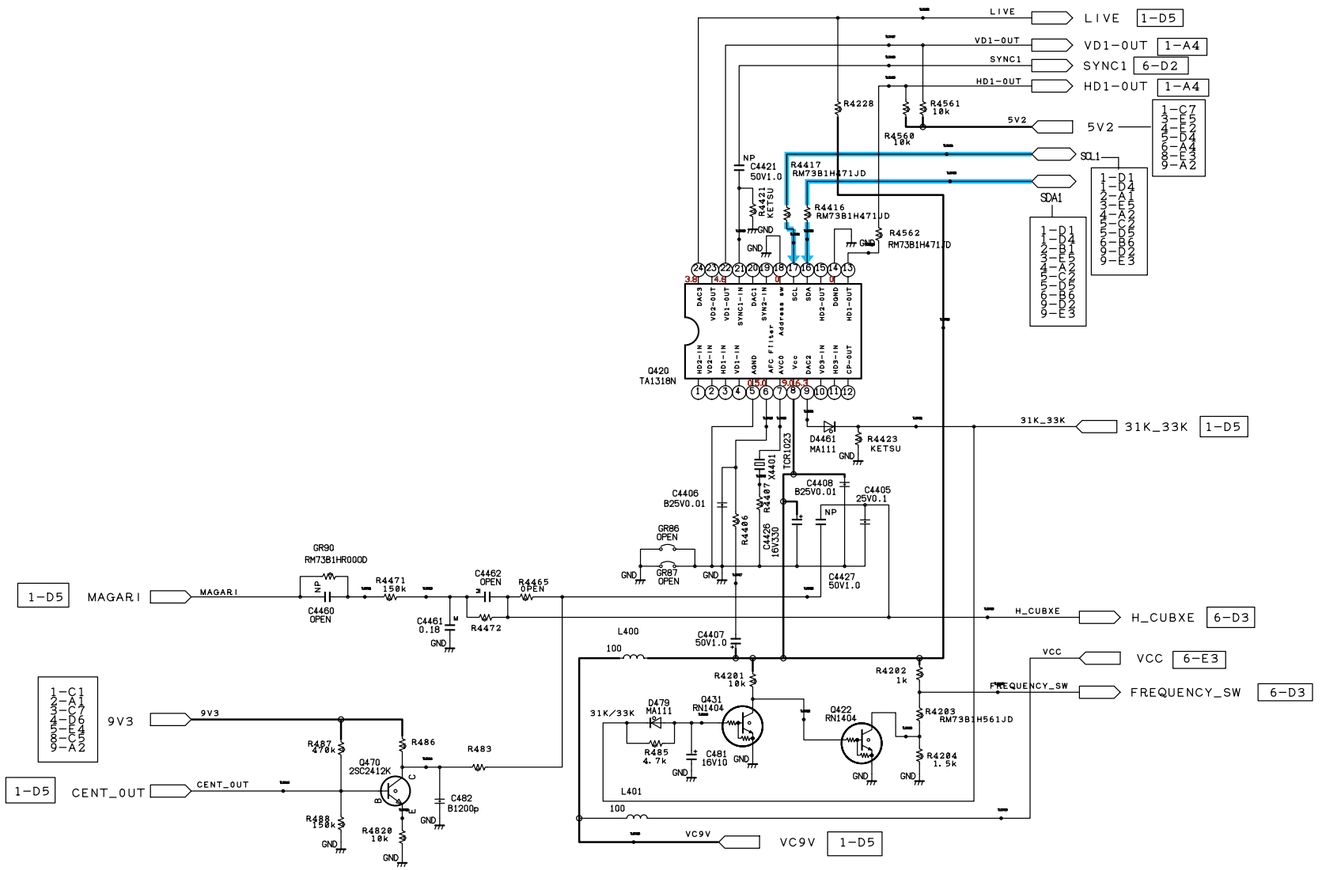
36HFX72/36HF72
SIGNAL-VCD1
[SHEET-6/10]



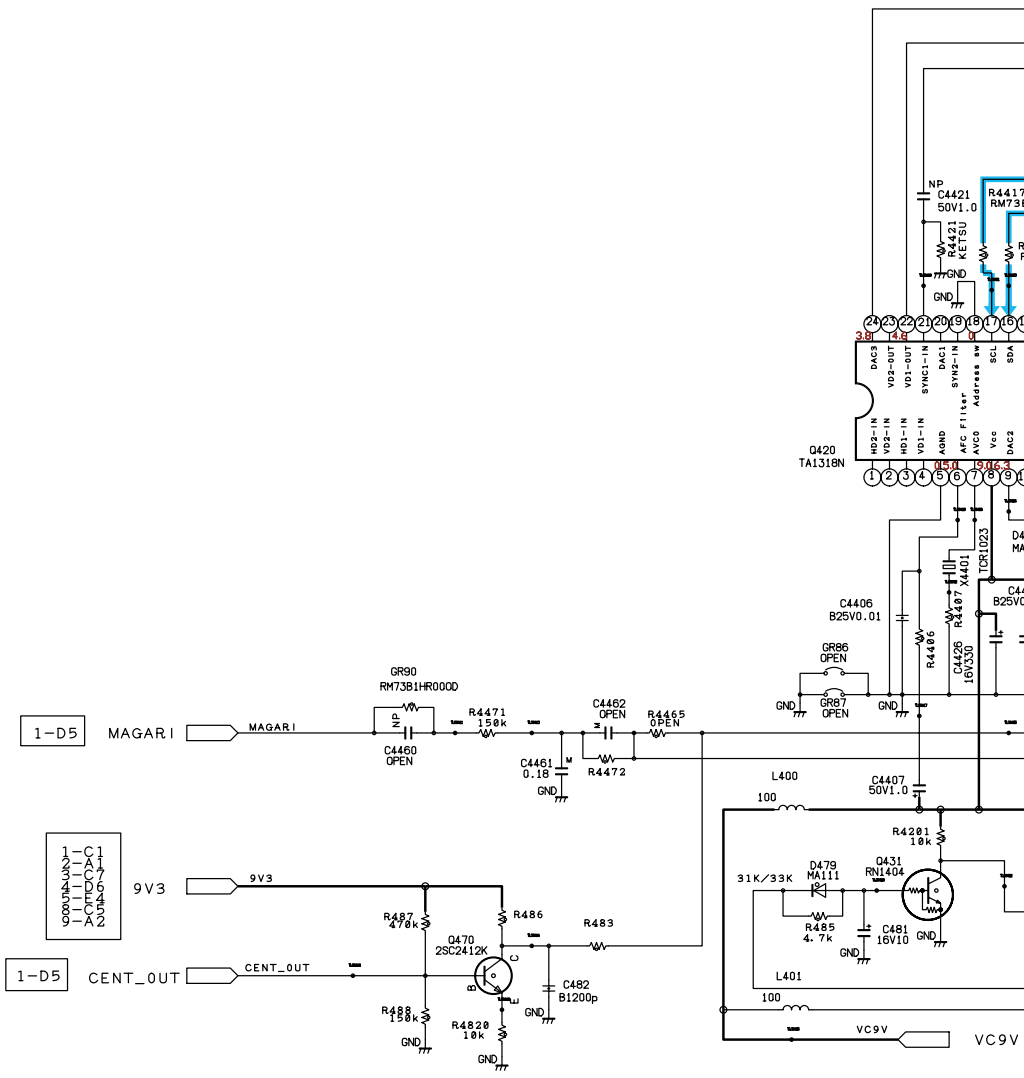
GR82 OPEN
GR83 OPEN
GR84 OPEN
GR85 OPEN
GND
Q1
I1
Y1
1-A3
GNDB
QUP
IUP
YUP
L5050 TEM2030AY
ABL
1-C4
9V1
1-D3
8-B5
C5140 OPEN
R563 1k
Q550 2SA1037AKT14
R564 1k
R565 1k
Q551 2SA1037AKT14
R566
R567 1k
Q552 2SA1037AKT14
R568 100
C546 25V0.1
IN
YN
QN
R513 100K
R515 10k
D505 MA8270-M
C515 25V0.1
D502 MA111
C520 DC50VM0.33
D513 OPEN
D512 OPEN
R245 1k
R2020 100
Q201 2SC2712Y
C2061 25V0.1
R2062 OPEN
R2060 1k
R2061 100
VM
Q252 OPEN
R251 OPEN
R254 OPEN
Q340 2SC2412K
R342 100
D509 OPEN
D341 MA111
D503 MA111
R525 7.5k
R526 100
C5280 100p
R3454 2.2k
L501 PL-47
C5030 16V100u
C5020 B25V0.01
C205 50V2.2u
R514 10k
C206 16V22u
GJ02 RM73B1HR000D
C560 50V1u
C561 50V1u
C562 50V1u
C531 25V0.1
C537
C536
C530 50V1u
R2110 10k
R2109 10k
R2108 10k
ROU
GOU
BOU
L503 PL-47
R560 10k
C513 B25V0.01
C5090 16V100u
CR12 25V0.1
OSDR1
OSDG1
OSDB1
APL FILTER
Y/C Vcc
VSM OUT
ABCL IN
Ym/P-MUTE/BLK
Ys1(ANALOG OSD)
Ys2(ANALOG OSD)
Ys3(ANALOG RGB)
R S/H
G S/H
B S/H
IK IN
RGB GND
R OUT
G OUT
B OUT
RGB Vcc
ANALOG OSD R IN
ANALOG OSD G IN
ANALOG OSD B IN
DAC2 ACB PLUSE
ANALOG R IN
ANALOG G IN
DARK AREA DET FILTER
BPH FILTER
Y1 IN
Cb/Pb1 IN
Cr1/Pr1 IN
Y/C GND
MATRIX SW
Y2 IN
Cb2/Pb2 IN
Cr2/Pr2 IN
COLOR LIMITER
VD2 IN
HD2 IN
SYNC IN
VD1 IN
HD1 IN
SCP IN
SCP OUT
DEF/DAC Vcc
AFC FILTER
HVCO
HORI FREQUENCY SW
H CURVE CORRECTION
GR14 OPEN
GR15 OPEN
L5040 TEM2030AY
Pr1
Pb1
Y3
3-B8
GR16 OPEN
GR17 OPEN
HDPR1
HDPB1
Y4
Q3103 2SA1037
R3105 1k
C3103 33p
R3106 1k
C563 50V0.47
R569 OPEN
C565 25V0.1
C566 25V0.1
C567 25V0.1
C568 50V0.47
C532 25V0.1
C533 25V0.1
C534 25V0.1
C564 2.2u
C5088 50V1u
C573 B25V0.01
GR95 SHORT
R3110 OPEN
C3110 50V0.1
R552 100
R512 OPEN
C430 B25V0.01
C4030 B25V0.01
R4030 OPEN
R4463
X4402 RM73B1H470023
C4464 50V1u
C431 16V220u
R4464
R4410
C415
1-A3
DSCPOUT
7-B5
SYNC1
DVDUP
DHDUP
7-D6
H_CUBXE
FREQUENCY_SW
RJ40 SHORT
D424
C4404 25V0.1
C2110 B25V0.01
R2146 1/8W1k
R2149 1/8W1k
R2105 100
R2152 100
C2102 10p
R2147 1/8W1k
R2150 1/8W
R2106 100
R2153 100
C2103 10p
R2148 1/8W1k
R2151 1/8W1k
R2107 100
R2154 100
C2104 10p
Q2106 KTA1266Y/2SA
VCC
1-E2
VM1
GR107 SHORT
GR108 OPEN
1-D6
12V_FBT
D422 MA8100-M
R422 4.7k
R423 10k
C424 16V100u
D423 ERB12-01
R424
R425 1k
Q425 2SC2412K or 2SC1412k.Q
Q427 RN1406
Q426 RN1406
Q428 RN1406
C425 16V100

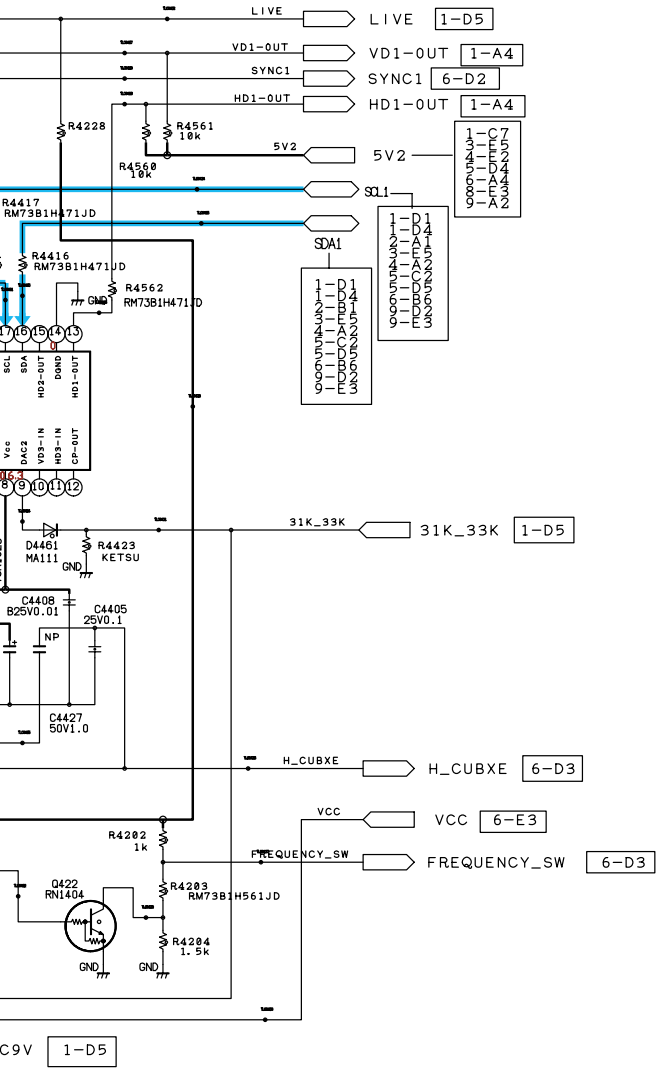


36HFX72/36HF72
SIGNAL-VCD1
[SHEET-6/10]

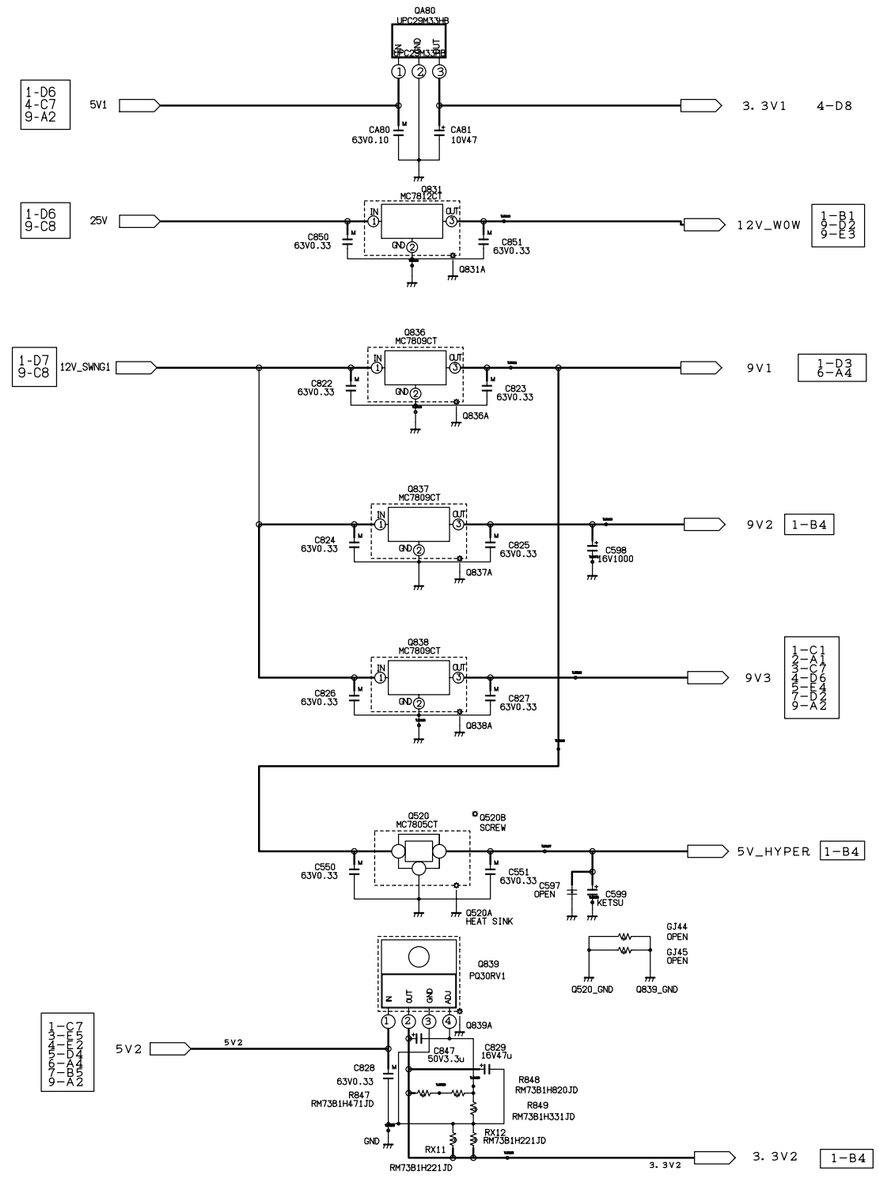


36HFX72/36HF72
SIGNAL-VCD-2
[SHEET-7/10]

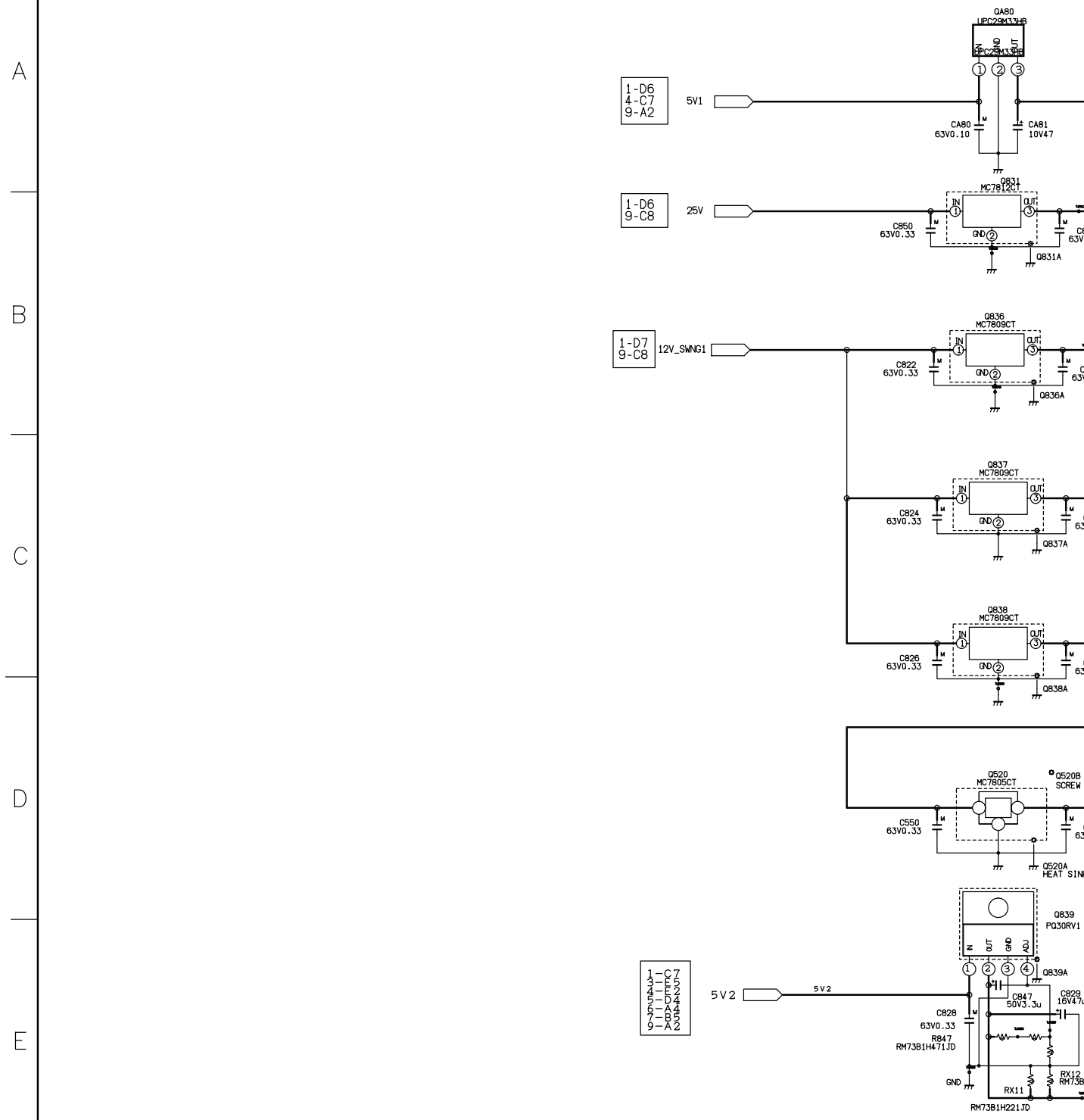

Q420
TA1318N
C4421
50V1.0
R4421
KETSU
C4406
B25V0.01
C4426
16V330
R4406
GR86
OPEN
GR87
OPEN
GR90
RM73B1HR000D
C4460
OPEN
R4471
150k
C4461
0.18
C4462
OPEN
R4465
OPEN
R4472
1-D5
MAGARI
C4407
50V1.0
L400
100
R4201
10k
D479
MA111
Q431
RN1404
31K/33K
R485
4.7k
C481
16V10
L401
VC9V
1-C1
2-A1
3-C7
4-D6
5-E4
6-C5
7-A2
9V3
R487
470k
R486
R483
Q470
2SC2412K
C482
B1200p
R488
150k
R4820
10k
CENT_OUT
GND

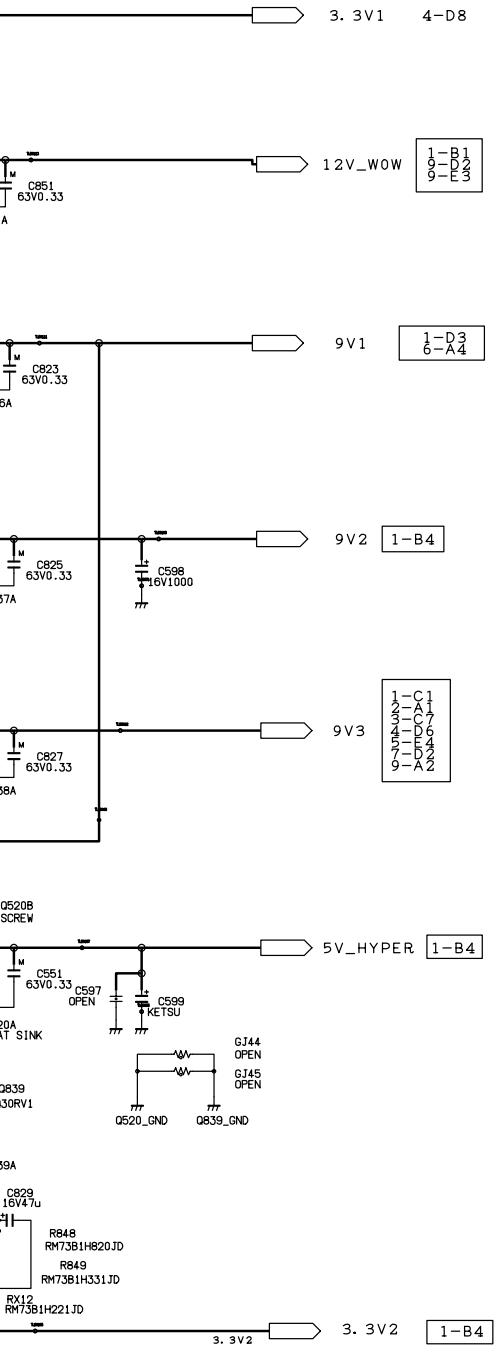


36HFX72/36HF72
SIGNAL-VCD-2
[SHEET-7/10]

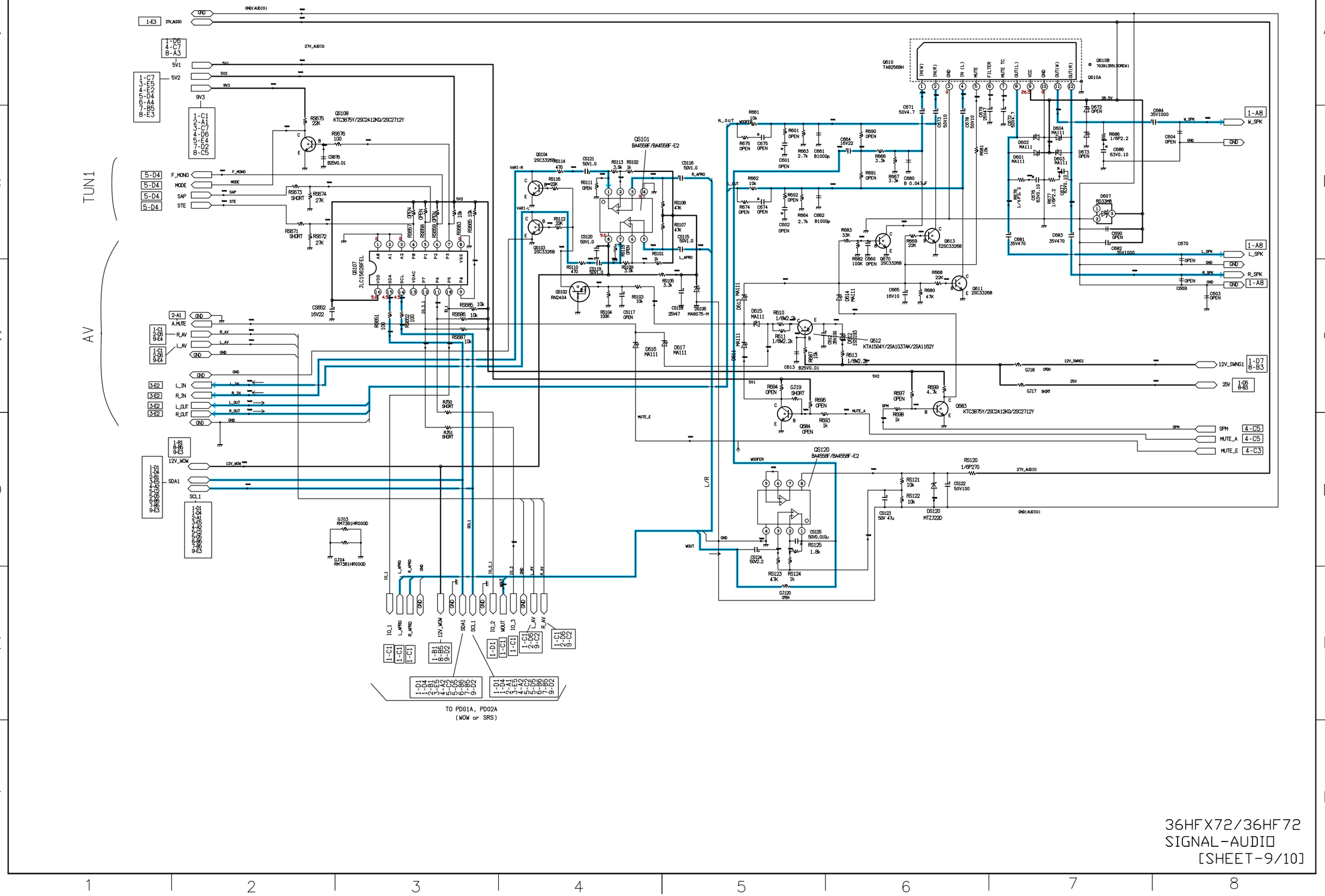


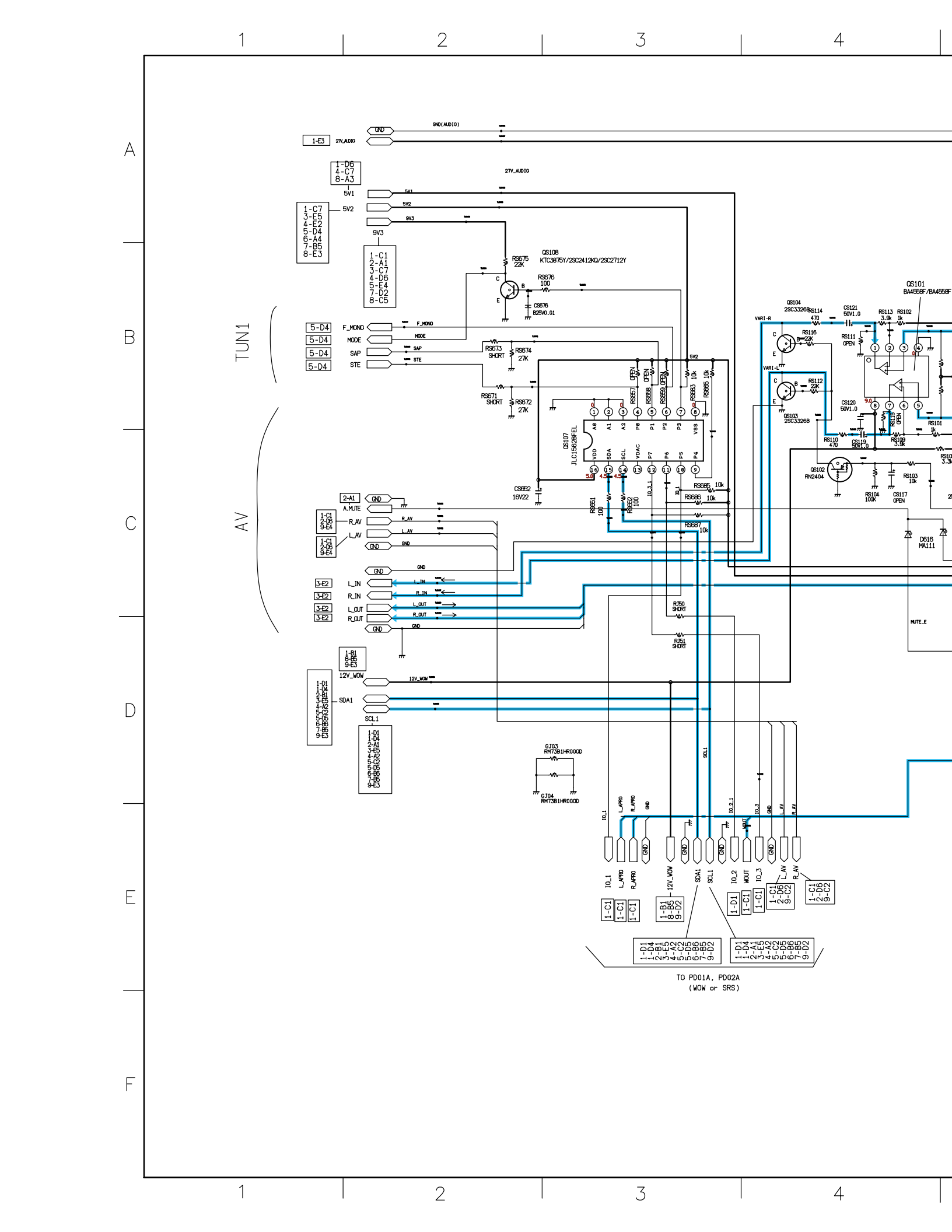
36HFX72/36HF72
SIGNAL-LOWB-REG
[SHEET-8/10]

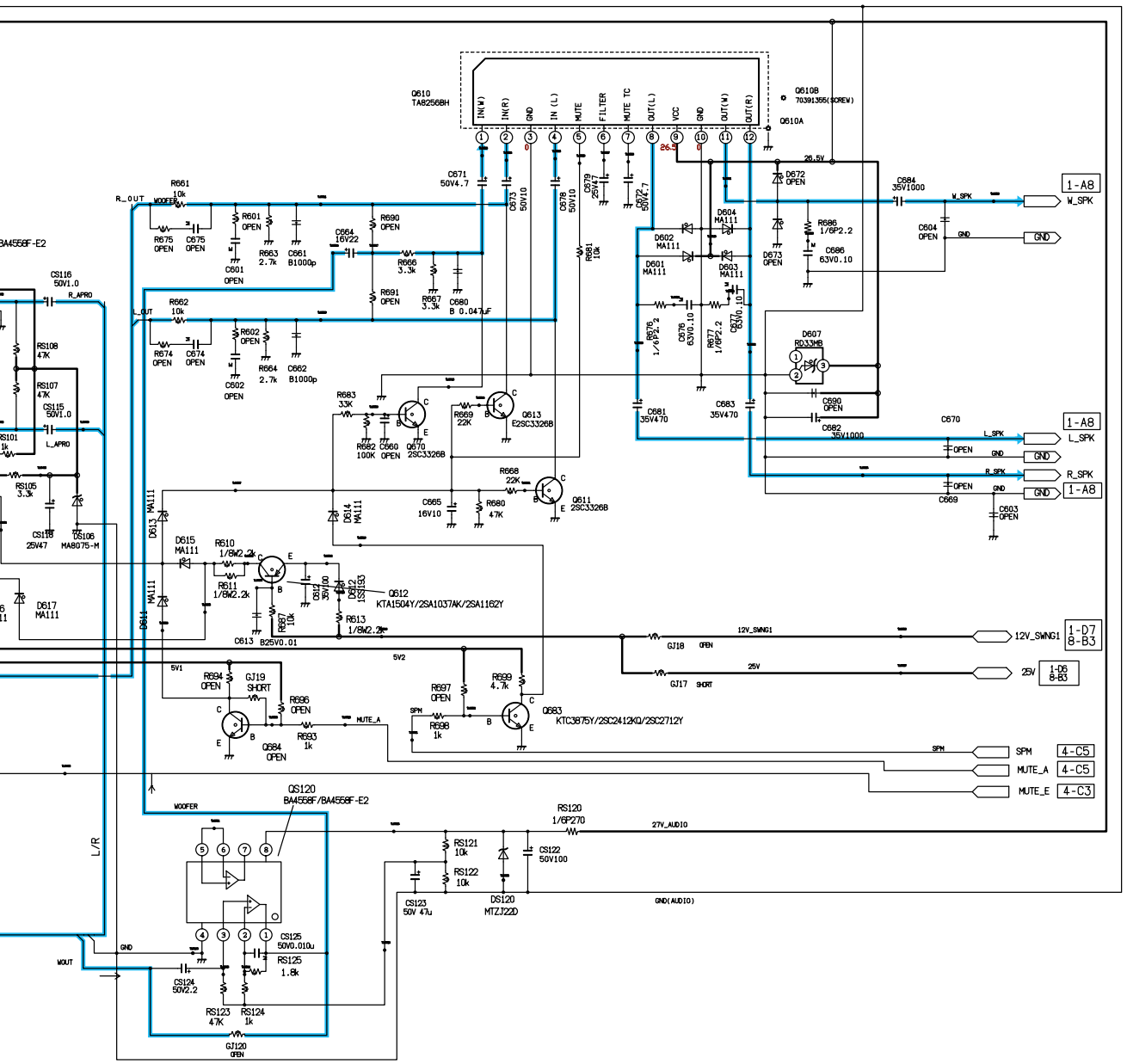

1-D6
4-C7
9-A2
5V1
QA80
UPC29M33HB
CA80
63V0.10
CA81
10V47
1-D6
9-C8
25V
Q831
MC7812CT
C850
63V0.33
Q831A
1-D7
9-C8
12V_SWNG1
Q836
MC7809CT
C822
63V0.33
Q836A
Q837
MC7809CT
C824
63V0.33
Q837A
Q838
MC7809CT
C826
63V0.33
Q838A
Q520
MC7805CT
Q520B
SCREW
C550
63V0.33
Q520A
HEAT SIN
Q839
PQ30RV1
Q839A
1-C7
3-F5
4-F2
5-D4
6-A4
7-B5
9-A2
5V2
5V2
C847
50V3.3u
C828
63V0.33
R847
RM73B1H471JD
GND
RX11
RM73B1H221JD
C829
16V47u
RX12
RM73B



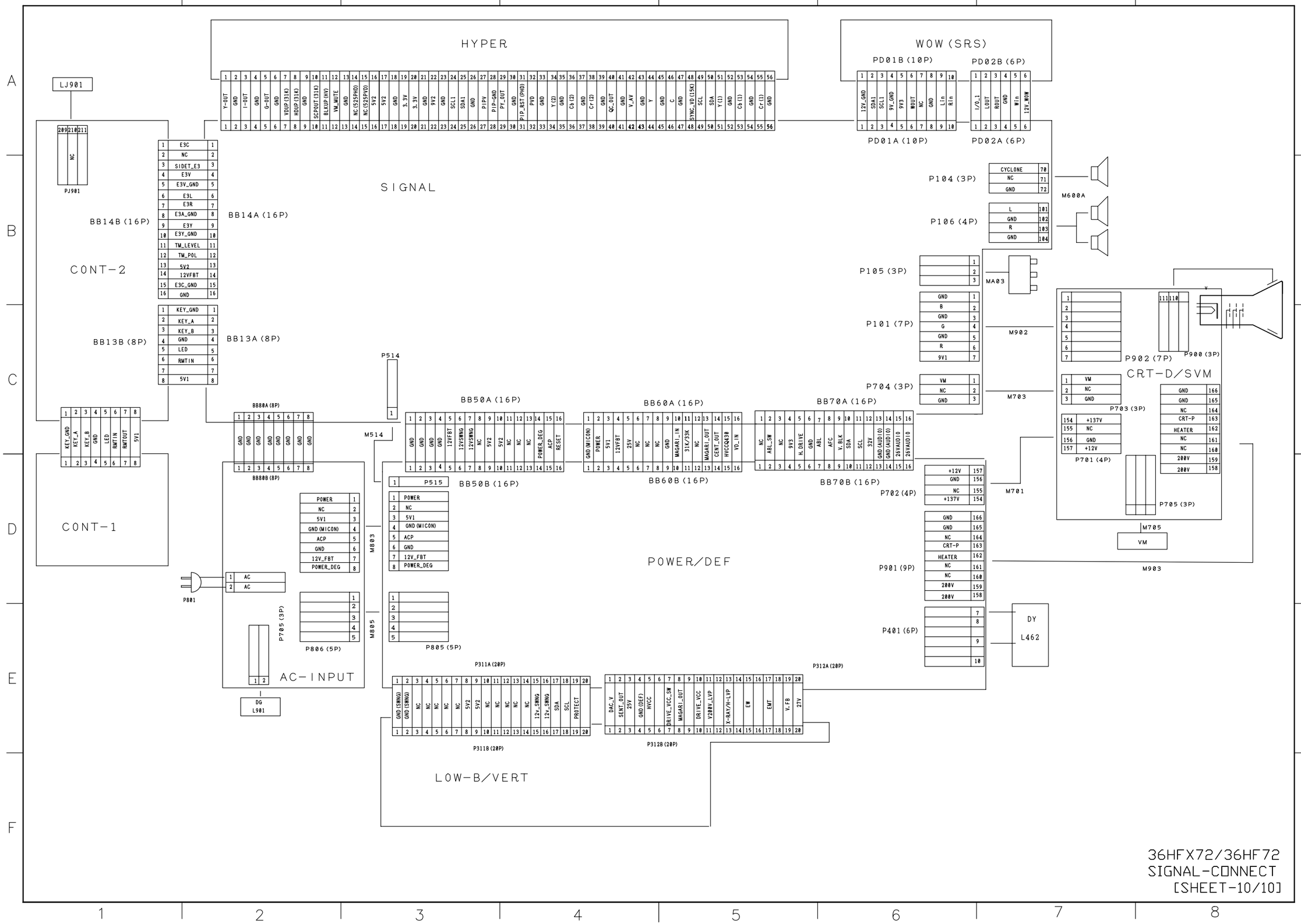
36HFX72/36HF72
SIGNAL-LOWB-REG
[SHEET-8/10]


TUN1
AV
GND(AUDIO)
27V_AUDIO
5V1
5V2
9V3
QS108 KTC3875Y/2SC2412KQ/2SC2712Y
F_MONO
MODE
SAP
STE
QS107 JLC1562BFEL
QS101 BA4558F/BA4558F-E2
QS104 2SC3326B
QS103 2SC3326B
QS102 RN2404
QS610 TA8256BH
QS610B 70301355(HOREW)
QS610A
QS611 2SC3326B
QS612 KTA1504Y/2SA1037AK/2SA1162Y
QS613 2SC3326B
QS683 KTC3875Y/2SC2412KQ/2SC2712Y
QS120 BA4558F/BA4558F-E2
A.MUTE
R_AV
L_AV
L_IN
R_IN
L_OUT
R_OUT
12V_WOW
SDA1
SCL1
10_1
10_2
10_3
MOUT
L_APRO
R_APRO
12V_SWNG1
25V
SPM
MUTE_A
MUTE_E
L/R
WOOFER
WOUT
TO PD01A, PD02A
(WOW or SRS)
36HFX72/36HF72
SIGNAL-AUDIO
[SHEET-9/10]

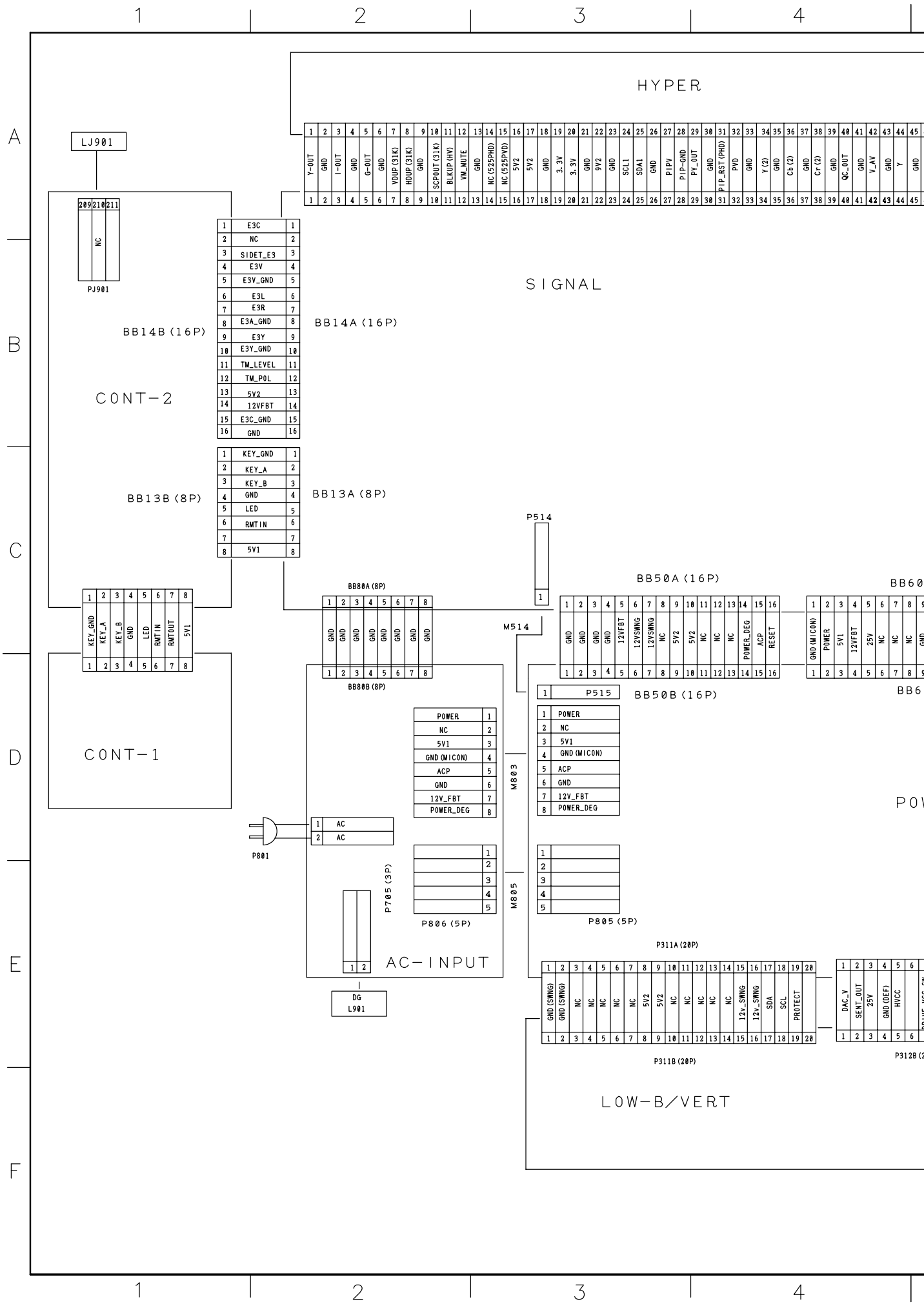

TUN1
AV
GND(AUDIO)
1-E3 27V_AUDIO
1-D6 4-C7 8-A3
5V1
1-C7 3-E5 4-E2 5-D4 6-A4 7-B5 8-E3
5V2
9V3
1-C1 2-A1 3-C7 4-D6 5-E4 7-D2 8-C5
QS108 KTC3875Y/2SC2412KQ/2SC2712Y
RS675 22K
RS676 100
CS676 B25V0.01
5-D4 F_MONO
5-D4 MODE
5-D4 SAP
5-D4 STE
RS673 SHORT
RS674 27K
RS671 SHORT
RS672 27K
QS107 JLC1562BFEL
CS852 16V22
2-A1 A.MUTE
1-C1 2-D6 9-E4 R_AV
1-C1 2-D6 9-E4 L_AV
3-E2 L_IN
3-E2 R_IN
3-E2 L_OUT
3-E2 R_OUT
RS851 100
RS852 100
RS885 10k
RS886 10k
RS887 10k
RJ50 SHORT
RJ51 SHORT
1-B1 8-B5 9-E3 12V_WOW
SDA1
SCL1
1-D1 1-D4 2-A1 3-E5 4-A2 5-C2 5-D5 6-B6 7-B5 9-D2
GJ03 RM73B1HR000D
GJ04 RM73B1HR000D
QS101 BA4558F/BA4558F
QS104 2SC3326B
QS103 2SC3326B
QS102 RN2404
RS116 22K
RS112 22K
RS114 470
RS113 3.3k
RS102 1k
RS111 OPEN
RS110 470
RS101 1k
RS103 10k
RS104 100K
CS121 50V1.0
CS120 50V1.0
CS119 50V1.0
CS117 OPEN
D616 MA111
MUTE_E
IO_1 L_APRO R_APRO GND
IO_2_1 GND SDA1 SCL1 GND
IO_2 WOUT IO_3 GND L_AV R_AV
1-C1 1-C1 1-C1
1-B1 8-B5 9-D2
1-D1 1-C1 1-C1 1-C1 2-D6 9-C2 1-C1 2-D6 9-C2
1-D1 1-D4 1-B1 3-E5 4-A2 5-C2 5-D5 6-B6 7-B5 9-D2
1-D1 1-D4 2-A1 3-E5 4-A2 5-C2 6-B6 7-B5 9-D2
TO PD01A, PD02A
(WOW or SRS)

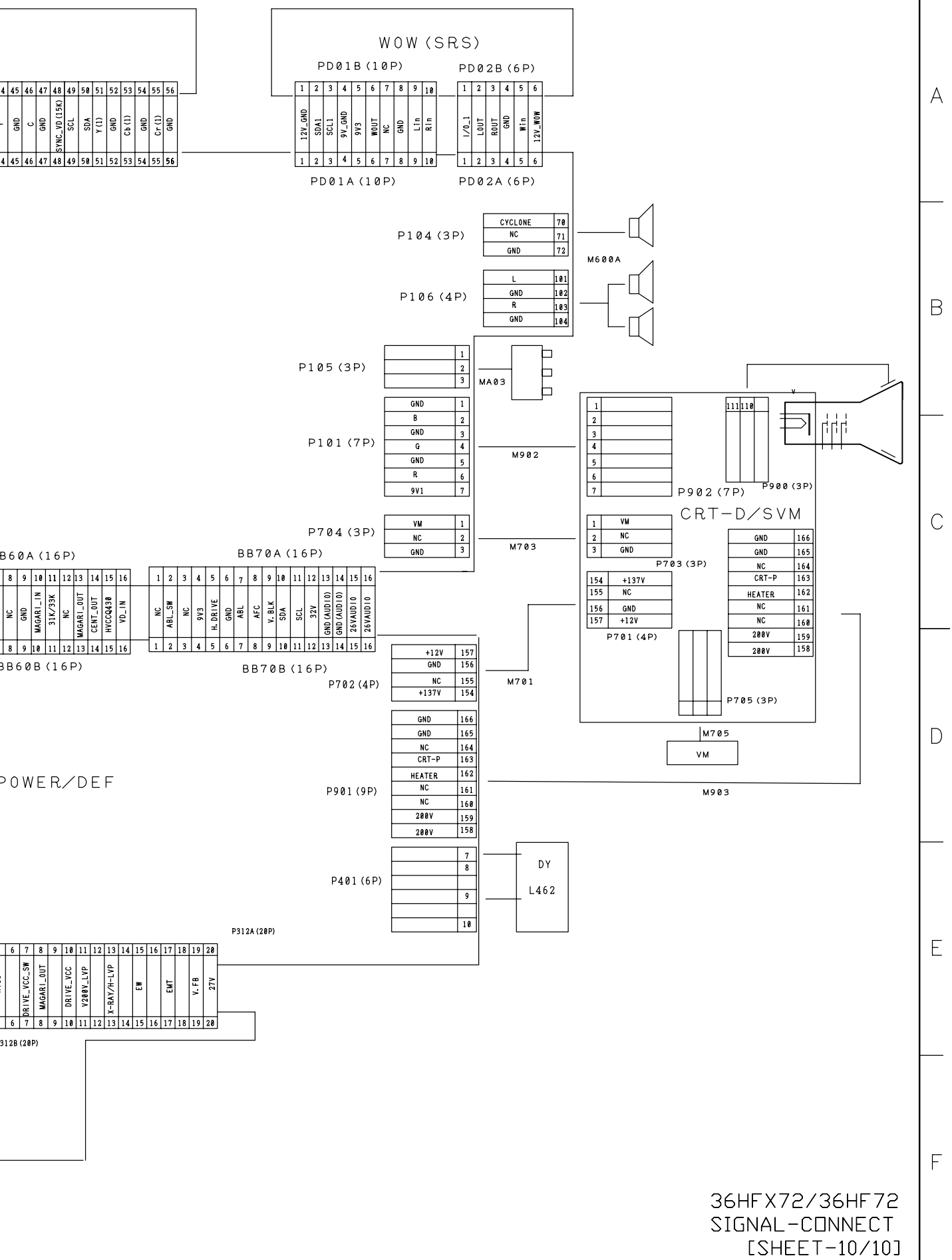


36HFX72/36HF72
SIGNAL-AUDIO
[SHEET-9/10]



36HFX72/36HF72
SIGNAL-CONNECT
[SHEET-10/10]


HYPER
SIGNAL
LJ901
PJ901
209 210 211
NC
BB14B (16P)
BB14A (16P)
1 E3C 1
2 NC 2
3 SIDET_E3 3
4 E3V 4
5 E3V_GND 5
6 E3L 6
7 E3R 7
8 E3A_GND 8
9 E3Y 9
10 E3Y_GND 10
11 TM_LEVEL 11
12 TM_POL 12
13 5V2 13
14 12VFBT 14
15 E3C_GND 15
16 GND 16
CONT-2
BB13B (8P)
BB13A (8P)
1 KEY_GND 1
2 KEY_A 2
3 KEY_B 3
4 GND 4
5 LED 5
6 RMTIN 6
7 7
8 5V1 8
CONT-1
KEY_GND KEY_A KEY_B GND LED RMTIN RMTOUT 5V1
BB80A (8P)
GND GND GND GND GND GND GND GND
BB80B (8P)
P514
M514
BB50A (16P)
GND GND GND 12VFBT 12VSWNG 12VSWNG NC 5V2 5V2 NC NC NC POWER_DEG ACP RESET
BB50B (16P)
P515
POWER
NC
5V1
GND (MICON)
ACP
GND
12V_FBT
POWER_DEG
M803
M805
P801
AC
AC
P705 (3P)
P806 (5P)
P805 (5P)
AC-INPUT
DG
L901
P311A (20P)
GND (SWNG) GND (SWNG) NC NC NC NC NC 5V2 5V2 NC NC NC NC 12V_SWNG 12V_SWNG SDA SCL PROTECT
P311B (20P)
LOW-B/VERT
DAC_V SENT_OUT 25V GND (DEF) HVCC



36HFX72/36HF72
SIGNAL-CONNECT
[SHEET-10/10]

36HFX72/36HF72
POWER/DEF-BANKAN
[SHEET-1/4]

TO SIGNAL

P515 1P(OPEN) — To signal — GND

BB70B BB 16P SOCKET — ABL, 9V3, H DRIVE, GND, ABL, AFC, V_BLK, SDA, SCL, 32V, GND(AUDIO), GND(AUDIO), 27Vp(AUDIO), 27Vp(AUDIO)

BB 16P SOCKET

BB60B BB 16P SOCKET — GND(MICON), POWER, 5V1, 12VpFBT, 25V, GND, MAGARI RESET IN, NC, MAGARI OUT, CENT OUT, HVCC, VDIN

BB50B BB 16P SOCKET — NC, GND, GND, GND, 12VpFBT, 12VpSWNG1, 12VpSWNG1, 9V1, 5V2, 5V2, POWERpDEG, ACP, RESET

P311A SOKET B-B 20P 2MM — GND, GND, GND, GND, GND, 5V2, 9V1, 5V2, 5V2, 9V3, 12VpSWNG, SDA, SCL, PROTECT, VDIN

P312A SOKET B-B 20P 2MM — V_SCROLL, CENT OUT, +25V, DEF GND, HVCC, V_DQF, DRIVE Vcc SW, MAGARI OUT, Drive Vcc, V200V LVP, VERT_VREF, X-RAY/H-LVP, VERT_VCC_FBT, EW, EHT, V_DRV, V_GND, VERT_VCC_OUT

D841 AK04 5V2

C821 16V1000

L839 TLN3452AF

L837 TRF2520AZ

ABL_SW2 — 2-C2 — ABL1 — 2-C2

9V3 — 2-A4 — H_DRIVE — 2-A2

ABL — 2-C4 — AFC — 2-D3

MAGARI_HOSEI — 2-A4 — 31K_33K — 2-C2 — MAGARI — 2-A5

POWER_DEG — 2-A5

ABL_FBT — 2-F1

BLK_V_DEF — 3-C6 — V_SCROLL — 3-C6 — VERT_VREF — 3-C2 — V_DRV — 3-D2 — GND — VERT_VCC_OUT — 3-B6

V_DQF — 2-D8 — DRIVE_VCC_SW — 2-D2

PROTECT — 2-F1 — DRIVE_VCC — 2-A2 — V200V_LVP — 2-A7

XRAY — 2-E4 — VERT_VCC_FBT — 2-E5 — EW — 2-C2 — HOR3 — 2-B2 — EHT — 2-D4

4-C7 32V — 4-C7 GND — 4-C7 27V_AUDIO — GND(AUDIO)

4-C7 25V — 4-C7 12V_SWNG — 4-C7 GND

P804 8P_2.5mm_1.5A_Beige

POWER — 2-E1

5V1 — 2-E1

12V_FBT — 2-D2

POWER_DEG

P805 PLUG SP — POWERSTART — DC — DC_GND — 3-C2 — 3-D2 — 3-D2

TO P806 #1

P702 4P_2.5mm_1.5A_Beige — 137V — GJ82 KETSUI — GND — 12VpFBT — 2-D2

TO VM

P901 9P_2.5mm_1.5A_Beige

GND — GND — BLK — CRT-P — HEATER — TO CRT.D

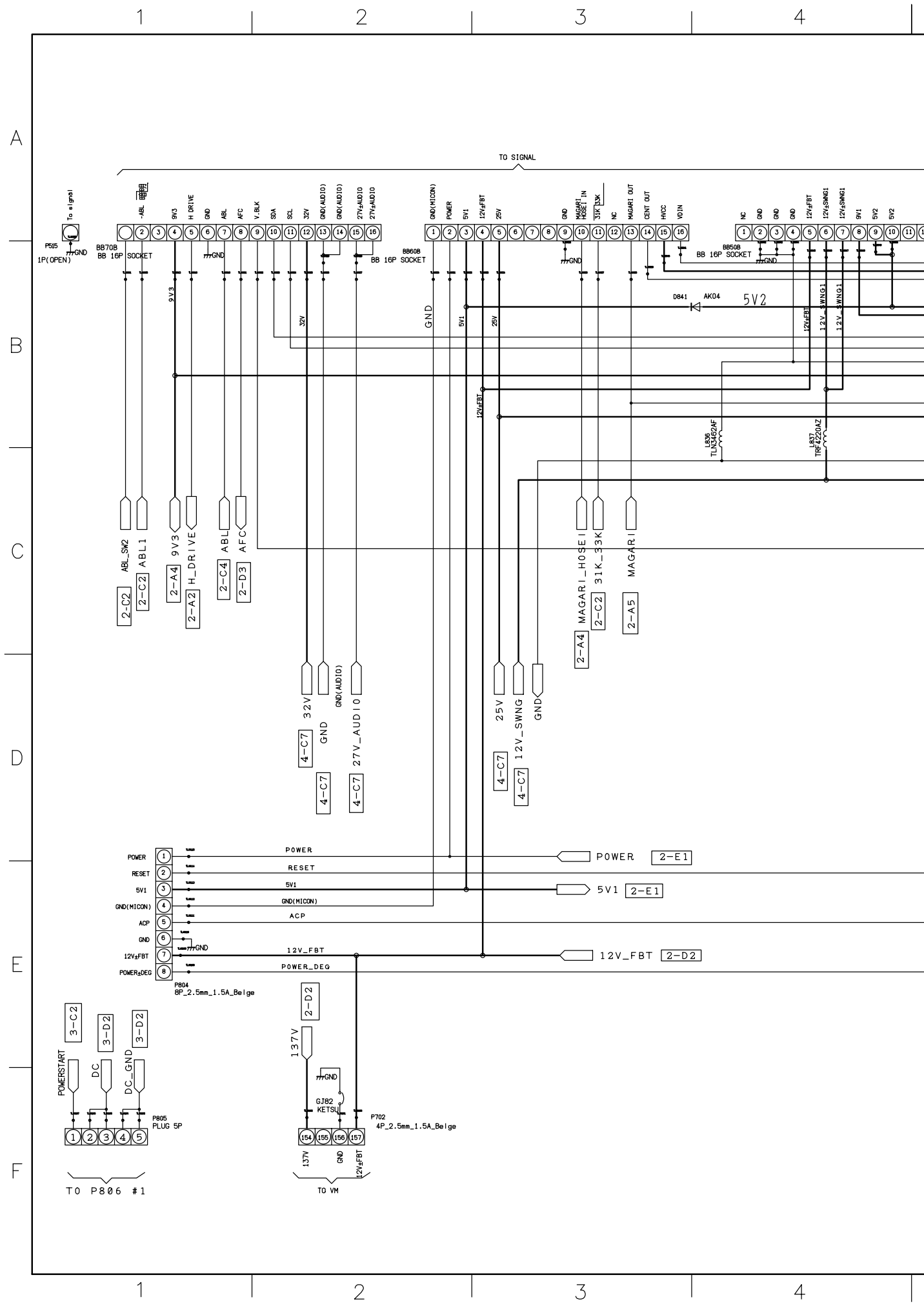
2-D8 HATER

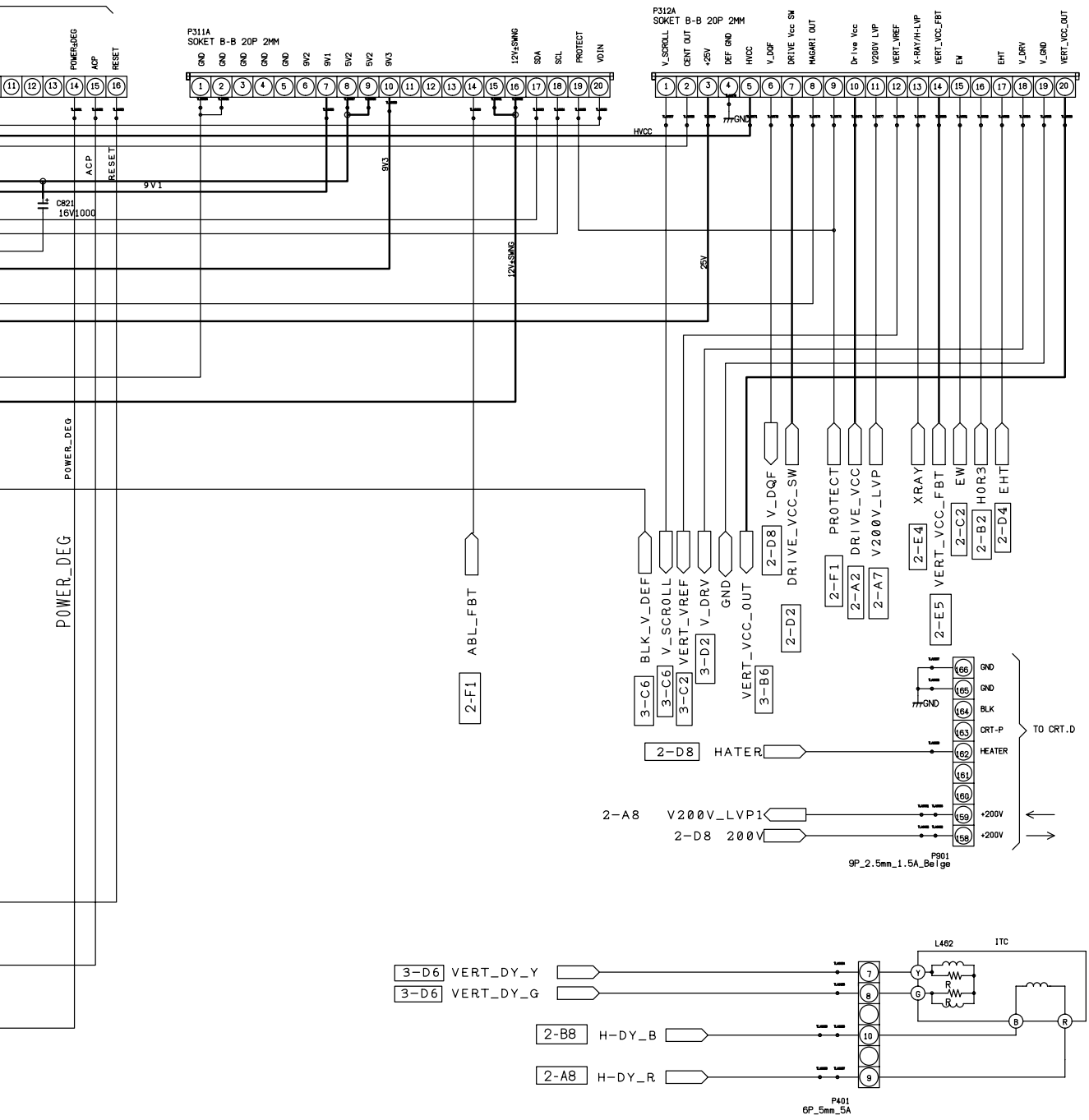
2-A8 V200V_LVP1 — 2-D8 200V — +200V — +200V

P401 6P_5mm_5A

3-D6 VERT_DY_Y — 3-D6 VERT_DY_G — 2-B8 H-DY_B — 2-A8 H-DY_R

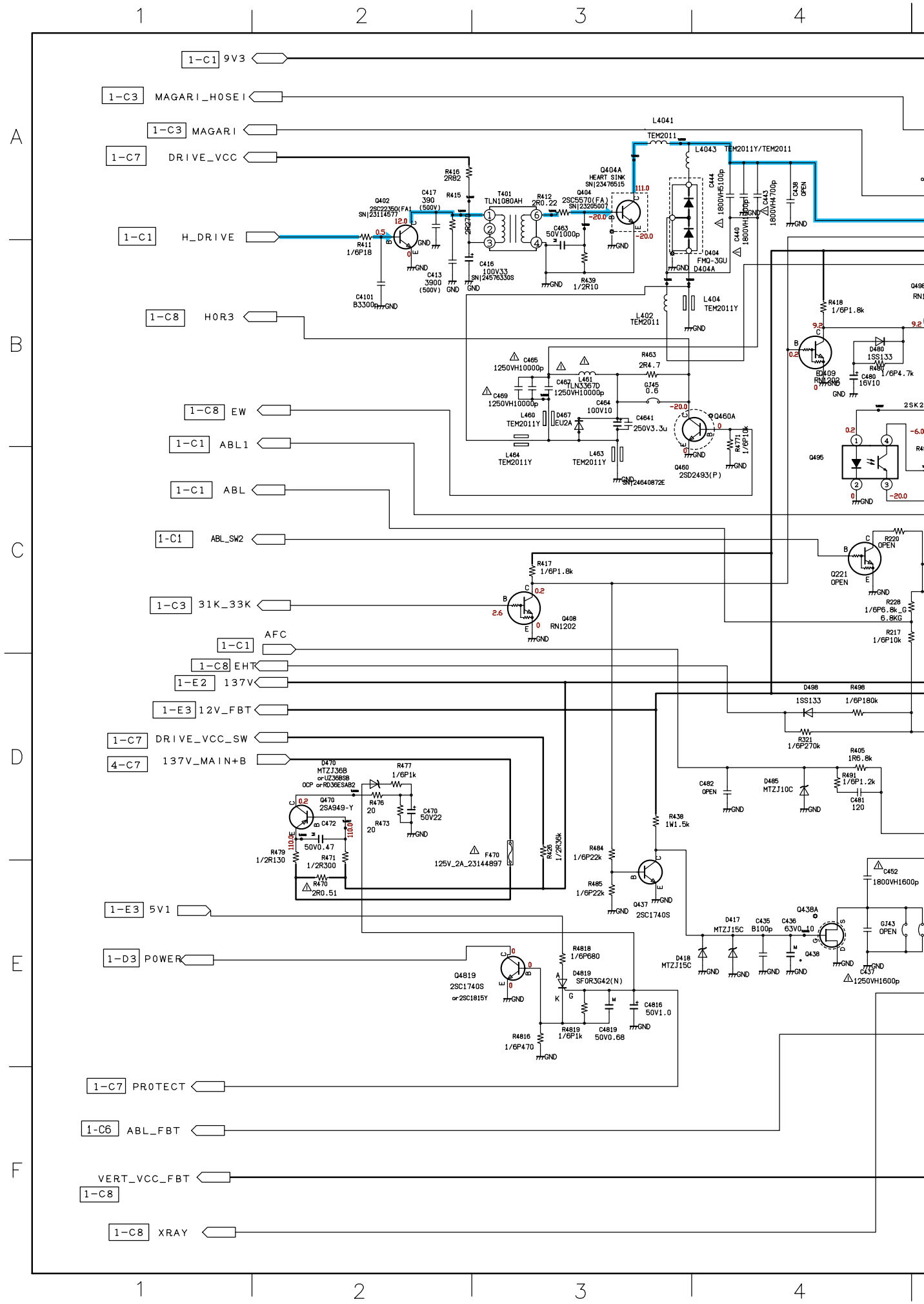
L462 ITC

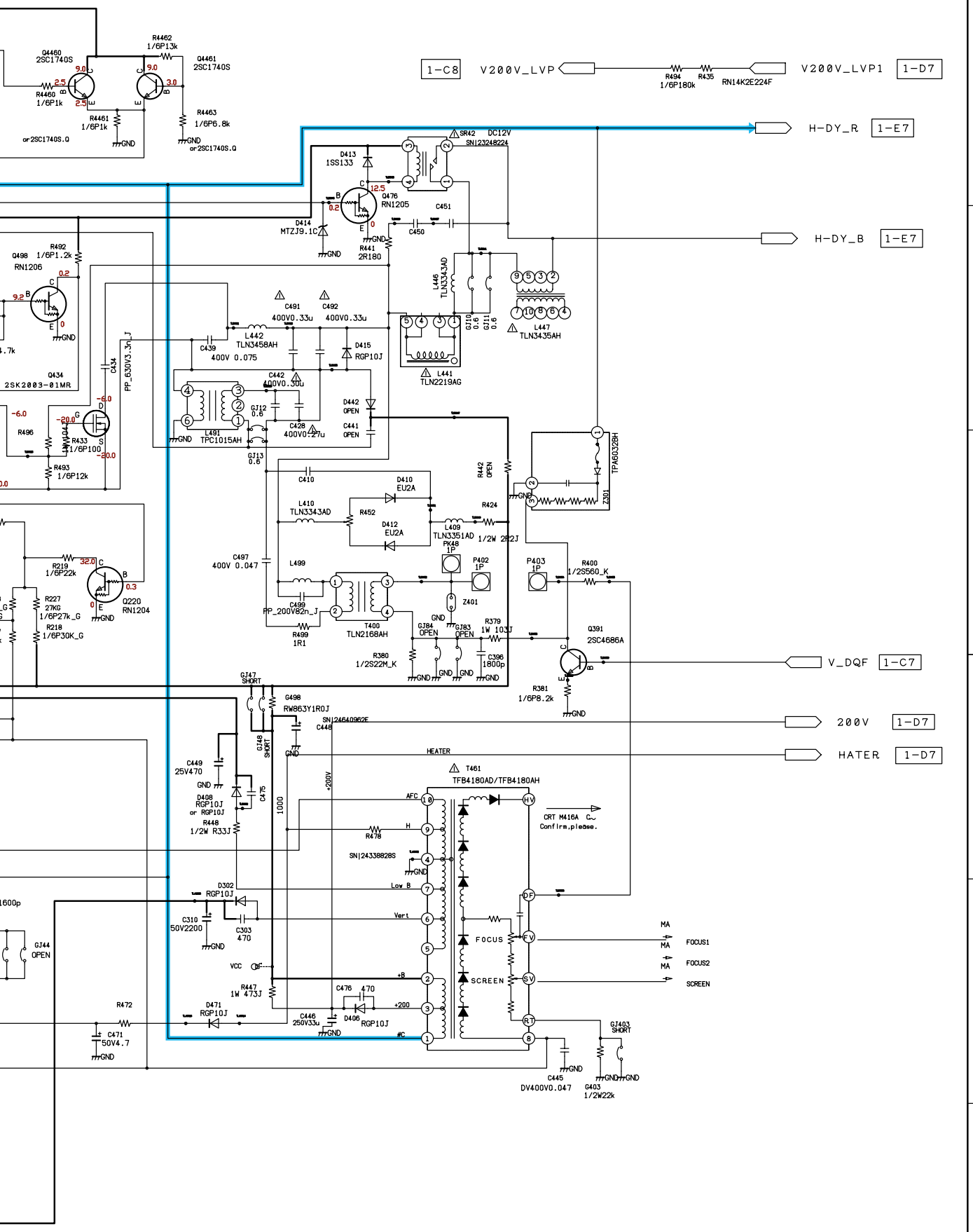

TO SIGNAL
P515
To signal
GND
1P(OPEN)
BB70B
BB 16P SOCKET
-ABL
9V3
H DRIVE
GND
ABL
AFC
V-BLK
SDA
SCL
32V
GND(AUDIO)
GND(AUDIO)
27V±AUDIO
27V±AUDIO
BB60B
BB 16P SOCKET
GND(MICON)
POWER
5V1
12V±FBT
25V
GND
MAGARI HOSEI IN
31K_33K
NC
MAGARI OUT
CENT OUT
HVCC
VDIN
BB50B
BB 16P SOCKET
NC
GND
GND
GND
12V±FBT
12V±SWNG1
12V±SWNG1
9V1
5V2
5V2
D841
AK04
5V2
12V±FBT
12V_SWNG1
12V_SWNG1
L836
TLN3402AF
L837
TRF4220AZ
ABL_SW2
2-C2
ABL1
2-C2
9V3
2-A4
H_DRIVE
2-A2
ABL
2-C4
AFC
2-D3
32V
4-C7
GND
4-C7
GND(AUDIO)
27V_AUDIO
4-C7
25V
4-C7
12V_SWNG
4-C7
GND
MAGARI_HOSEI
2-A4
31K_33K
2-C2
MAGARI
2-A5
POWER
RESET
5V1
GND(MICON)
ACP
GND
12V±FBT
POWER_DEG
P804
8P_2.5mm_1.5A_Belge
POWER
2-E1
5V1
2-E1
12V_FBT
2-D2
3-C2
POWERSTART
3-D2
DC
3-D2
DC_GND
P805
PLUG 5P
TO P806 #1
2-D2
137V
GND
GJ82
KETSU
P702
4P_2.5mm_1.5A_Belge
137V
GND
12V±FBT
TO VM

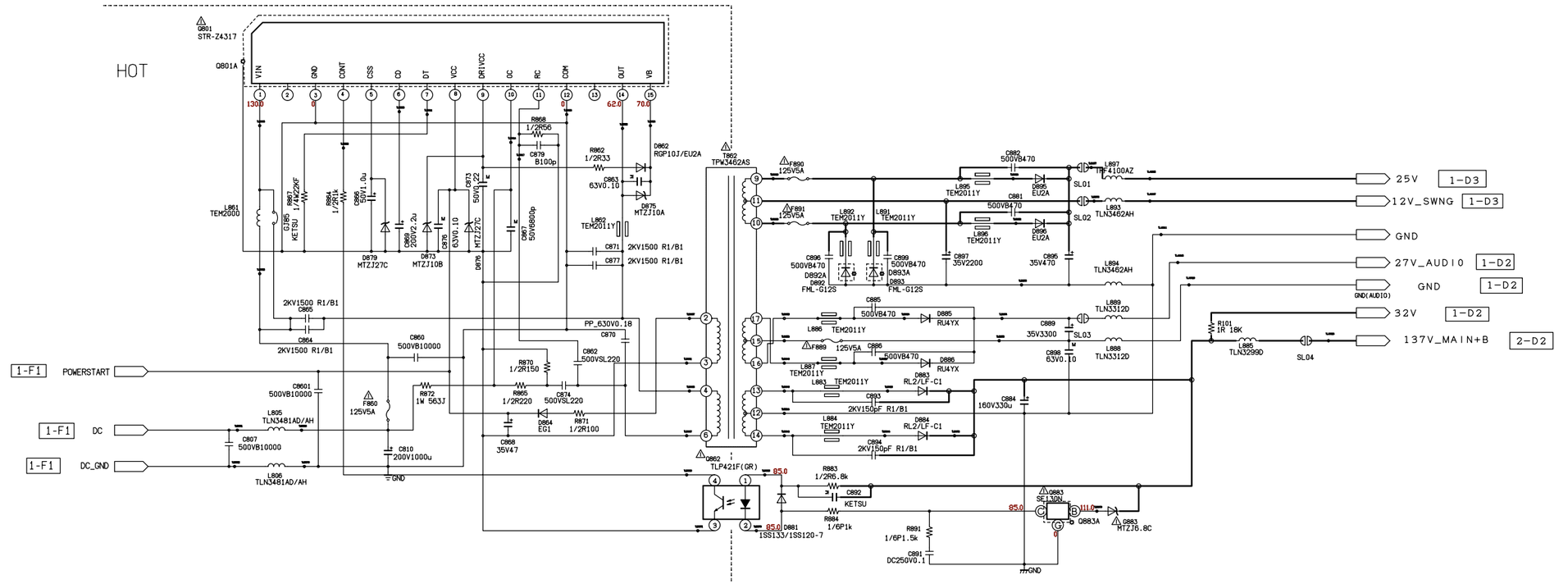


36HFX72/36HF72
POWER/DEF-BANKAN
[SHEET-1/4]

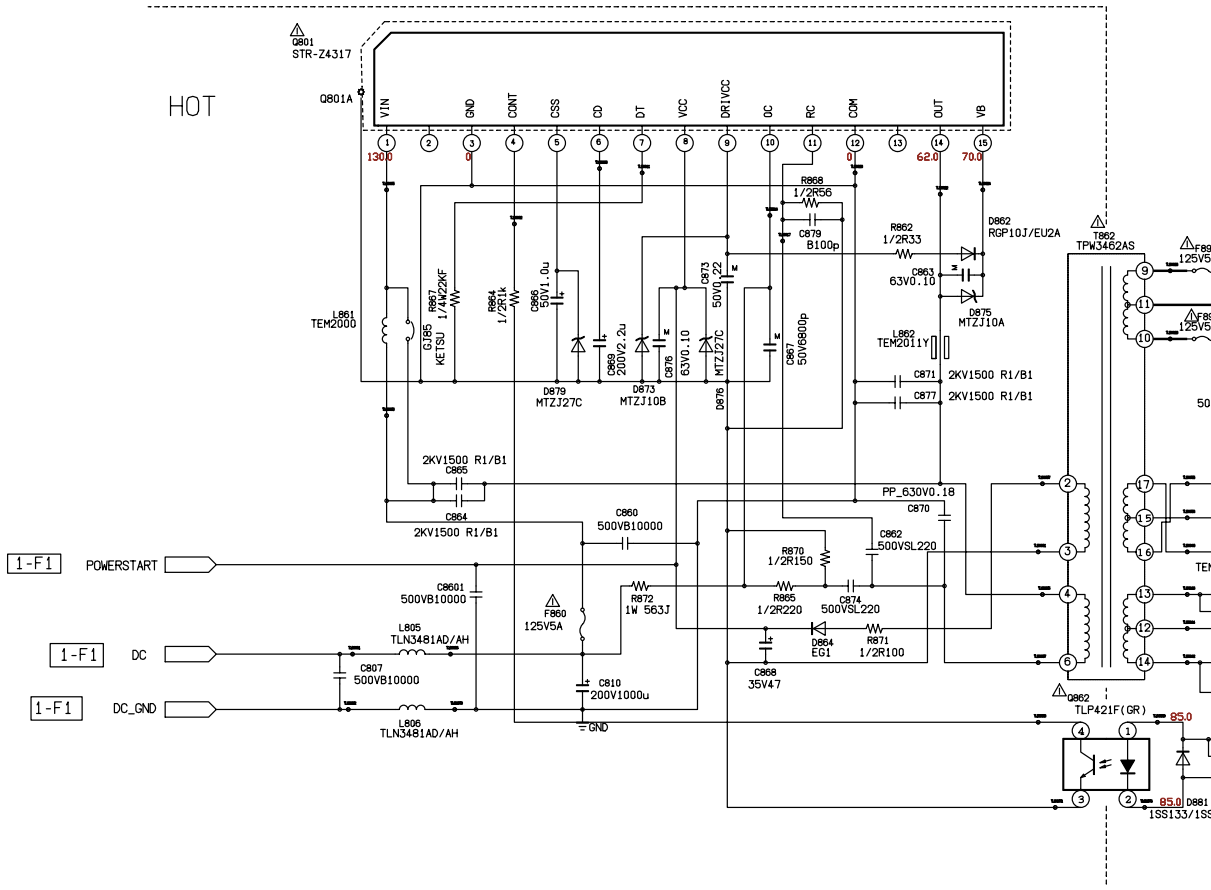
1-C1 9V3
1-C3 MAGARI_HOSEI
1-C3 MAGARI
1-C7 DRIVE_VCC
1-C1 H_DRIVE
1-C8 H0R3
1-C8 EW
1-C1 ABL1
1-C1 ABL
1-C1 ABL_SW2
1-C3 31K_33K
1-C1 AFC
1-C8 EHT
1-E2 137V
1-E3 12V_FBT
1-C7 DRIVE_VCC_SW
4-C7 137V_MAIN+B
1-E3 5V1
1-D3 POWER
1-C7 PROTECT
1-C6 ABL_FBT
VERT_VCC_FBT
1-C8
1-C8 XRAY
1-C8 V200V_LVP
V200V_LVP1 1-D7
H-DY_R 1-E7
H-DY_B 1-E7
V_DQF 1-C7
200V 1-D7
HATER 1-D7
FOCUS1
FOCUS2
SCREEN
CRT M416A Confirm,please.
L4041 TEM2011
L4043 TEM2011Y/TEM2011
T401 TLN1080AH
T461 TFB4180AD/TFB4180AH
T400 TLN2168AH
L441 TLN2219AG
L442 TLN3458AH
L445 TLN3343AD
L446 TLN3343AD
L447 TLN3435AH
L491 TPC1015AH
L410 TLN3343AD
L409 TLN3351AD
L461 TLN3367D
L402 TEM2011
L404 TEM2011Y
L460 TEM2011Y
L463 TEM2011Y
L464 TEM2011Y
Q4404A HEART SINK SN|23476515
Q4460 2SC1740S
Q4461 2SC1740S
Q402 2SC2235O(FA) SN|23114577
Q404 2SC5570(FA) SN|23205007
Q460 2SD2493(P)
Q460A
Q470 2SA949-Y
Q476 RN1205
Q408 RN1202
Q220 RN1204
Q221 OPEN
Q4819 2SC1740S or 2SC1815Y
Q437 2SC1740S
Q438A
Q438
Q495 EL409 RN1202
Q498 RN1206
2SK2003-01MR
D4404 FMD-3GU
D4404A
D480 1SS133
D485 MTZJ10C
D498 1SS133
D4819 SF0R3G42(N)
D491 TPC1015AH
D4818 1/6P680
D414 MTZJ9.1C
D413 1SS133
D417 MTZJ15C
D418 MTZJ15C
D302 RGP10J
D471 RGP10J
D406 RGP10J
D408 RGP10J or RGP10J
D415 RGP10J
D442 OPEN
D441 OPEN
D410 EU2A
D412 EU2A
D467 EU2A
D4816 1/6P470
D4819 SF0R3G42(N)
D4818 1/6P680
D4816 1/6P470
D4819 1/6P1k
D4819 50V0.68
D4816 1/6P470
C4816 50V1.0
C4819 50V0.68
C4101 B3300
C4641 250V3.3u
C4641 250V3.3u
C4641 250V3.3u

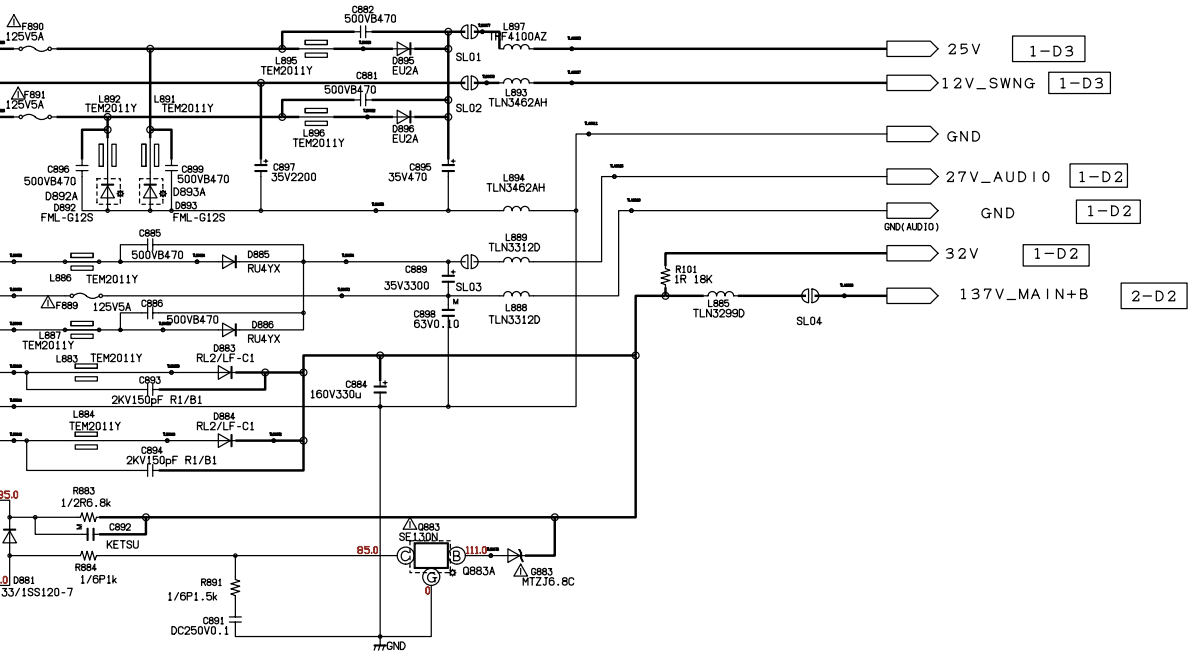

1-C1 9V3
1-C3 MAGARI_HOSEI
1-C3 MAGARI
1-C7 DRIVE_VCC
1-C1 H_DRIVE
1-C8 H0R3
1-C8 EW
1-C1 ABL1
1-C1 ABL
1-C1 ABL_SW2
1-C3 31K_33K
1-C1 AFC
1-C8 EHT
1-E2 137V
1-E3 12V_FBT
1-C7 DRIVE_VCC_SW
4-C7 137V_MAIN+B
1-E3 5V1
1-D3 POWER
1-C7 PROTECT
1-C6 ABL_FBT
VERT_VCC_FBT
1-C8
1-C8 XRAY
L4041
TEM2011
L4043 TEM2011Y/TEM2011
Q404A HEART SINK SN|23476515
Q404 2SC5570(FA) SN|23205007
Q402 2SC2235O(FA) SN|23114577
T401 TLN1080AH
D404 FMQ-3GU D404A
L404 TEM2011Y
L402 TEM2011
L461 TLN3367D
Q460A 2SD2493(P)
Q408 RN1202
Q221 OPEN
Q495
Q437 2SC1740S
Q438A
Q4819 2SC1740S or2SC1815Y
D470 MTZJ36B or UZ36BSB OCP or RD36ESAB2
Q470 2SA949-Y
F470 125V_2A_23144897
D418 MTZJ15C
D417 MTZJ15C
D485 MTZJ10C
D4819 SF0R3G42(N)
D480 1SS133
D498 1SS133
R411 1/6P18
R412 2R0.22
R415 2R21
R416 2R82
R417 1/6P1.8k
R418 1/6P1.8k
R438 1W1.5k
R439 1/2R10
R463 2R4.7
R471 1/2R300
R479 1/2R130
R484 1/6P22k
R485 1/6P22k
R4818 1/6P680
R4819 1/6P1k
R4816 1/6P470
C4101 B3300p
C413 3900 (500V)
C416 100V33 SN|24576330S
C417 390 (500V)
C463 50V1000p
C464 100V10
C465 1250VH10000p
C467 1250VH10000p
C469 1250VH10000p
C4641 250V3.3u
C470 50V22
C472 50V0.47
C4816 50V1.0
C4819 50V0.68
C452 1800VH1600p
C1250VH1600p
C480 16V10
C481 120
C482 OPEN
C435 B100p
C436 63V0.1
C438 OPEN
C443 1800VH4700p
C444 1800VH5100p
R220 OPEN
R228 1/6P6.8k_G 6.8KG
R217 1/6P10k
R321 1/6P270k
R405 1R6.8k
R491 1/6P1.2k
R498 1/6P180k
R4711 1/6P10k
GJ43 OPEN
GJ45 0.6
EU2A
SN|24640872E
SN|24576330S
GND
1 2 3 4
A B C D E F


1-C8
V200V_LVP
R494 1/6P180k
R435 RN14K2E224F
V200V_LVP1
1-D7
H-DY_R
1-E7
H-DY_B
1-E7
V_DQF
1-C7
200V
1-D7
HATER
1-D7
Q4460 2SC1740S
Q4461 2SC1740S
R4462 1/6P13k
R4460 1/6P1k
R4461 1/6P1k
R4463 1/6P6.8k
or 2SC1740S.Q
GND
SR42 DC12V
SN|23248224
D413 1SS133
Q476 RN1205
D414 MTZJ9.1C
R441 2R180
C450
C451
L446 TLN3343AD
L447 TLN3435AH
L441 TLN2219AG
GJ10 0.6
GJ11 0.6
R492 1/6P1.2k
Q498 RN1206
Q434 2SK2003-01MR
R496
R433 1/6P100
R493 1/6P12k
C434 PP_630V3.3n_J
C491 400V0.33u
C492 400V0.33u
L442 TLN3458AH
C439 400V 0.075
D415 RGP10J
C442 400V0.33u
D442 OPEN
C441 OPEN
C428 400V0.27u
L491 TPC1015AH
GJ12 0.6
GJ13 0.6
C410
D410 EU2A
L410 TLN3343AD
R452
D412 EU2A
L409 TLN3351AD 1/2W 2R2J
R424
R442 OPEN
TPA6032BH
Z301
C497 400V 0.047
L499
C499 PP_200V82n_J
R499 1R1
T400 TLN2168AH
PK48 1P
P402 1P
Z401
P403 1P
R400 1/2S560_K
GJ84 OPEN
GJ83 OPEN
R379 1W 103J
R380 1/2S22M_K
C396 1800p
Q391 2SC4686A
R381 1/6P8.2k
R219 1/6P22k
Q220 RN1204
R227 27KG 1/6P27k_G
R218 1/6P30K_G
GJ47 SHORT
G498 RW863Y1R0J
SN|24640962E
C448
GJ48 SHORT
C449 25V470
D408 RGP10J or RGP10J
C475 1000
R448 1/2W R33J
T461 TFB4180AD/TFB4180AH
AFC
H
R478
CRT M416A
Confirm,please.
SN|24338828S
Low B
Vert
FOCUS
SCREEN
MA
FOCUS1
FOCUS2
SCREEN
D302 RGP10J
C310 50V2200
C303 470
VCC
+B
+200
#C
R447 1W 473J
C476 470
D471 RGP10J
D406 RGP10J
C446 250V33u
R472
C471 50V4.7
C445 DV400V0.047
GJ403 SHORT
G403 1/2W22k
GJ44 OPEN
36HFX72/36HF72
POWER/DEF-H-DEF
[SHEET-2/4]

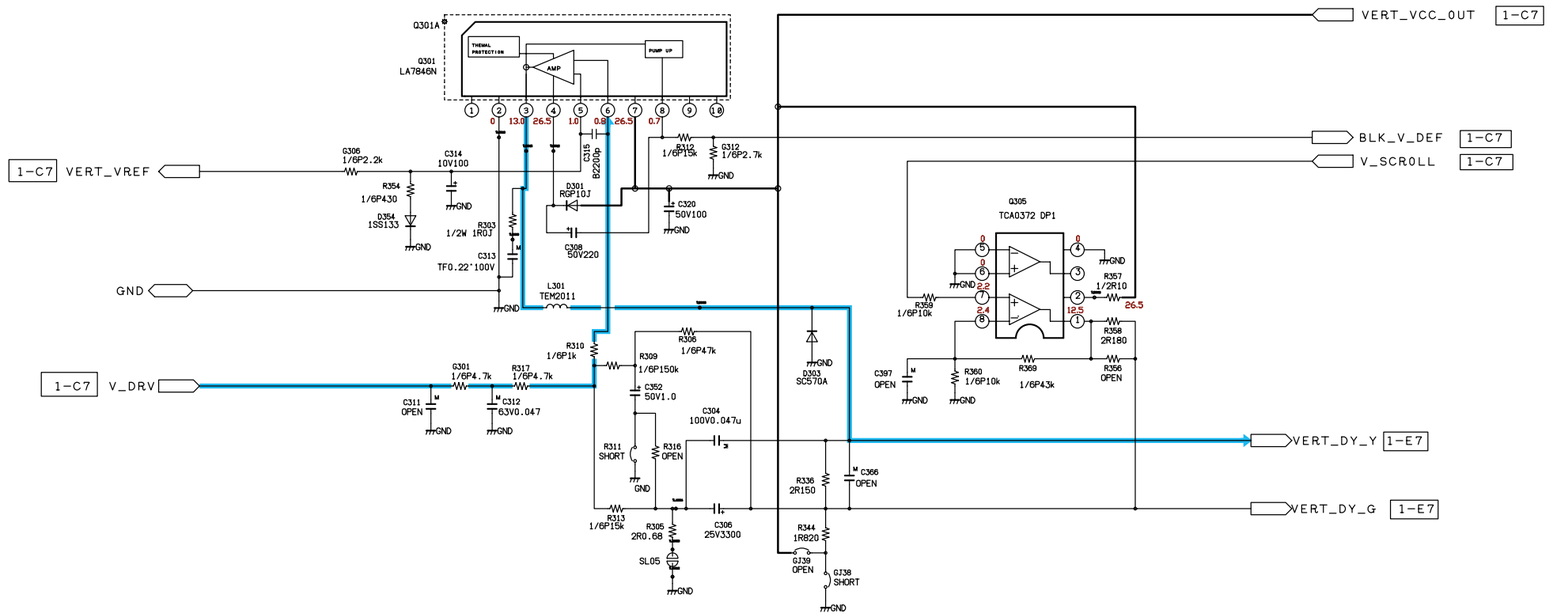


36HFX72/36HF72
POWER/DEF-MAIN-POW
[SHEET-3/4]

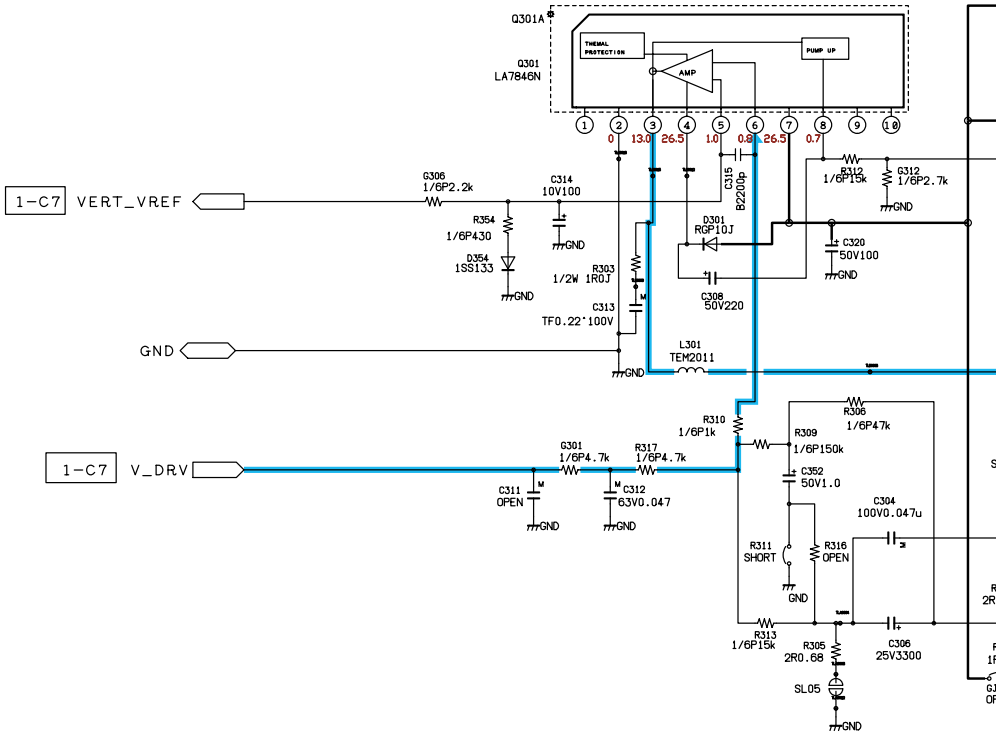

HOT
Q801
STR-Z4317
Q801A
VIN
GND
CONT
CSS
CD
DT
VCC
DRIVCC
OC
RC
COM
OUT
VB
1300
0
0
62.0
70.0
R868
1/2R56
C879
B100p
R862
1/2R33
D862
RGP10J/EU2A
T862
TPW3462AS
C863
63V0.10
D875
MTZJ10A
L862
TEM2011Y
L861
TEM2000
R867
1/4W22KF
GJ85
KETSU
R864
1/2W1K
C866
50V1.0u
C869
200V2.2u
D879
MTZJ27C
C876
63V0.10
D873
MTZJ10B
C873
50V0.22
MTZJ27C
D876
C867
50V6800p
C871
2KV1500 R1/B1
C877
2KV1500 R1/B1
C865
2KV1500 R1/B1
C864
2KV1500 R1/B1
C860
500VB10000
PP_630V0.18
C870
C862
500VSL220
R870
1/2R150
R865
1/2R220
C874
500VSL220
D864
EG1
R871
1/2R100
C868
35V47
1-F1
POWERSTART
C8601
500VB10000
F860
125V5A
R872
1W 563J
1-F1
DC
L805
TLN3481AD/AH
C807
500VB10000
C810
200V1000u
1-F1
DC_GND
L806
TLN3481AD/AH
GND
Q862
TLP421F(GR)
85.0
D881
1SS133/1SS
125V5

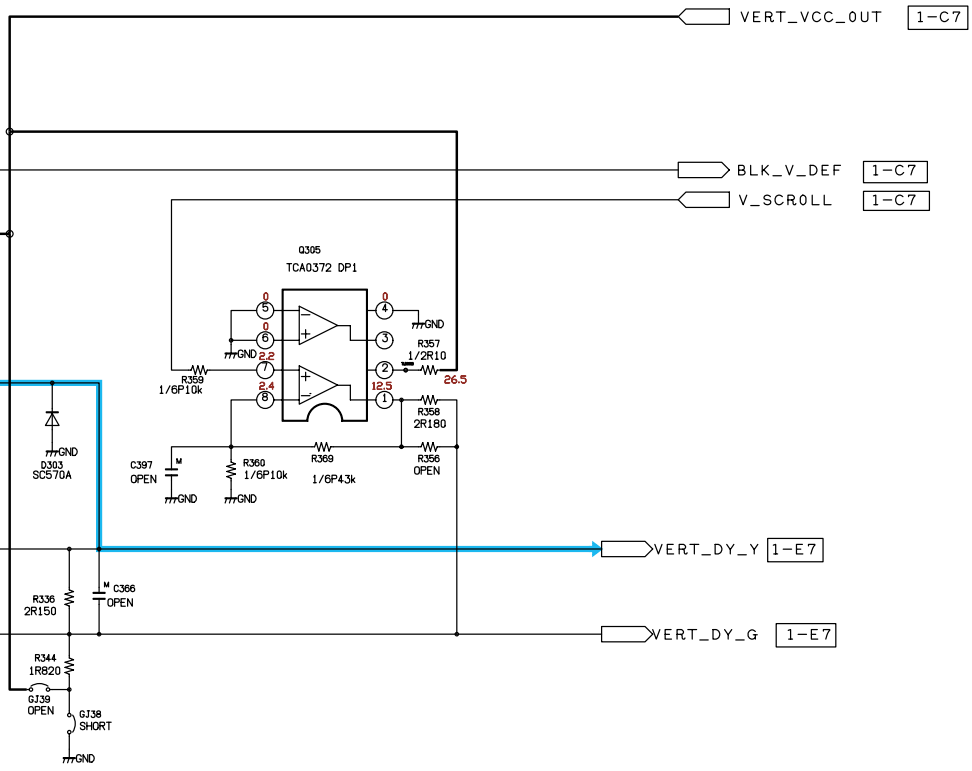


36HFX72/36HF72
POWER/DEF-MAIN-POW
[SHEET-3/4]



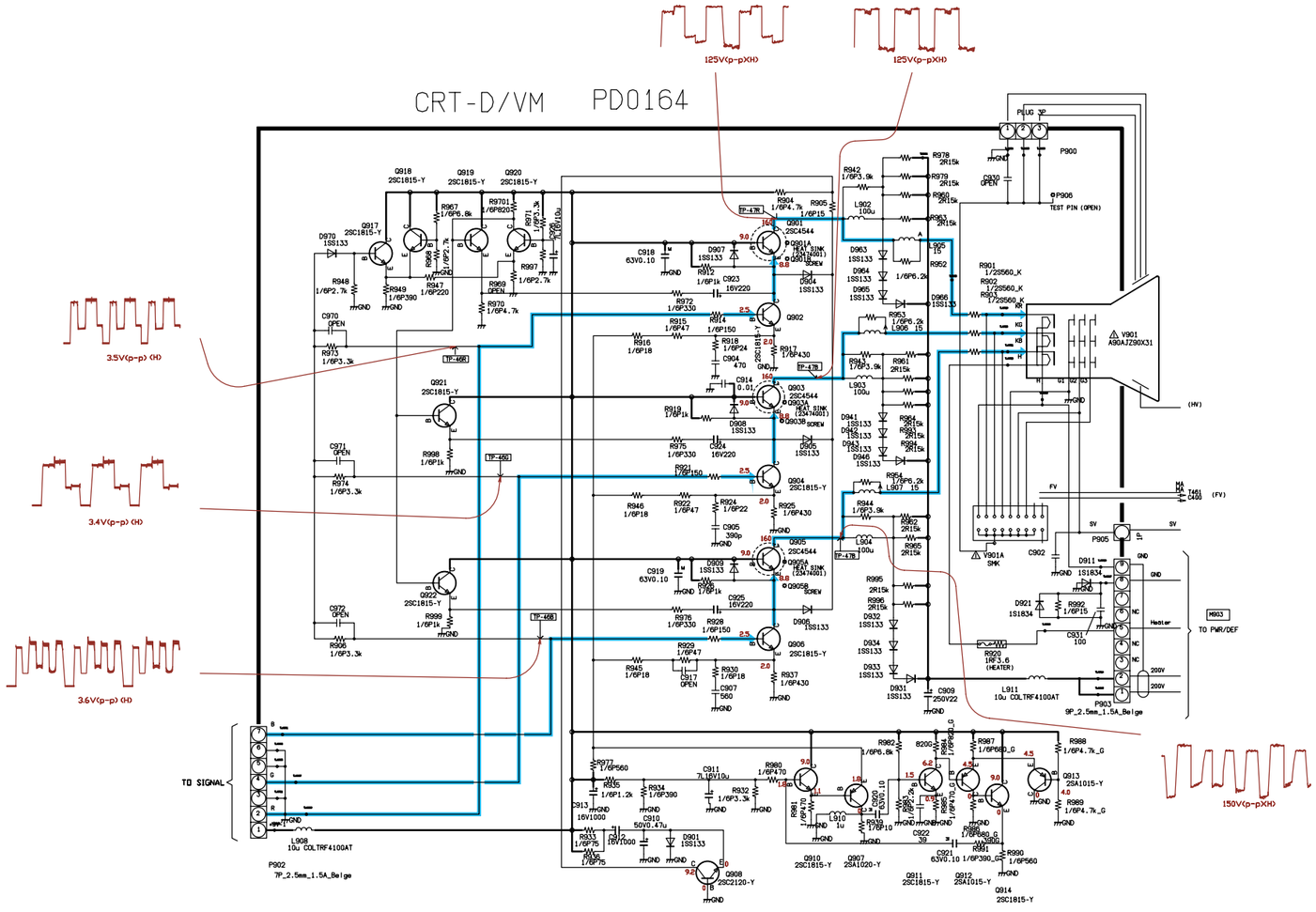
36HFX72/36HF72
POWER/DEF-V-DEF
[SHEET-4/4]


Q301A
THEMAL PROTECTION
PUMP UP
AMP
Q301
LA7846N
1 2 3 4 5 6 7 8 9 10
0 13.0 26.5 1.0 0.8 26.5 0.7
1-C7 VERT_VREF
G306 1/6P2.2k
C314 10V100
R354 1/6P430
D354 1SS133
GND
R303 1/2W 1R0J
C313 TF0.22*100V
C315 B2200p
D301 RGP10J
C308 50V220
R312 1/6P15k
G312 1/6P2.7k
C320 50V100
GND
L301 TEM2011
R306 1/6P47k
R310 1/6P1k
R309 1/6P150k
C352 50V1.0
C304 100V0.047u
1-C7 V_DRV
G301 1/6P4.7k
R317 1/6P4.7k
C311 OPEN
C312 63V0.047
R311 SHORT
R316 OPEN
R313 1/6P15k
R305 2R0.68
C306 25V3300
SL05

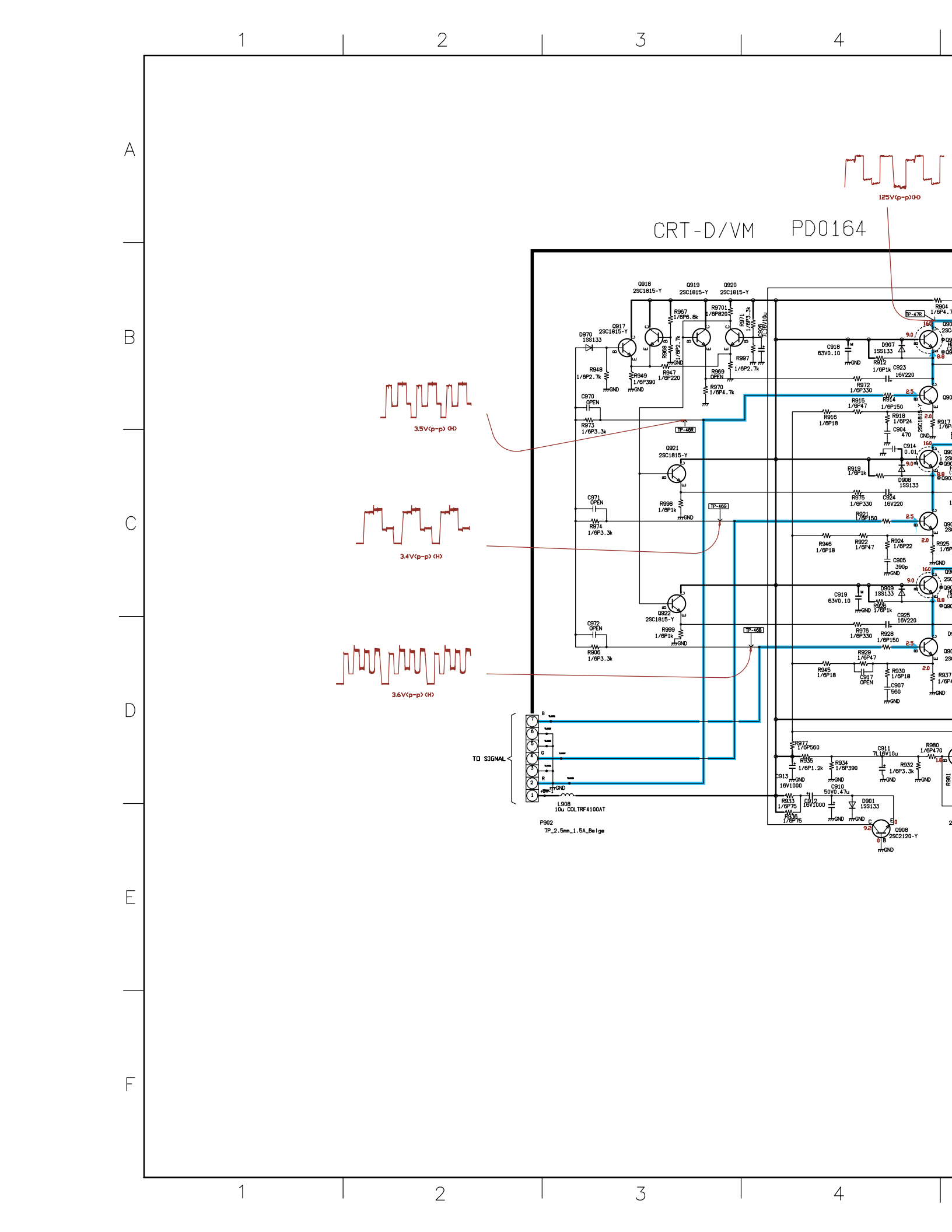


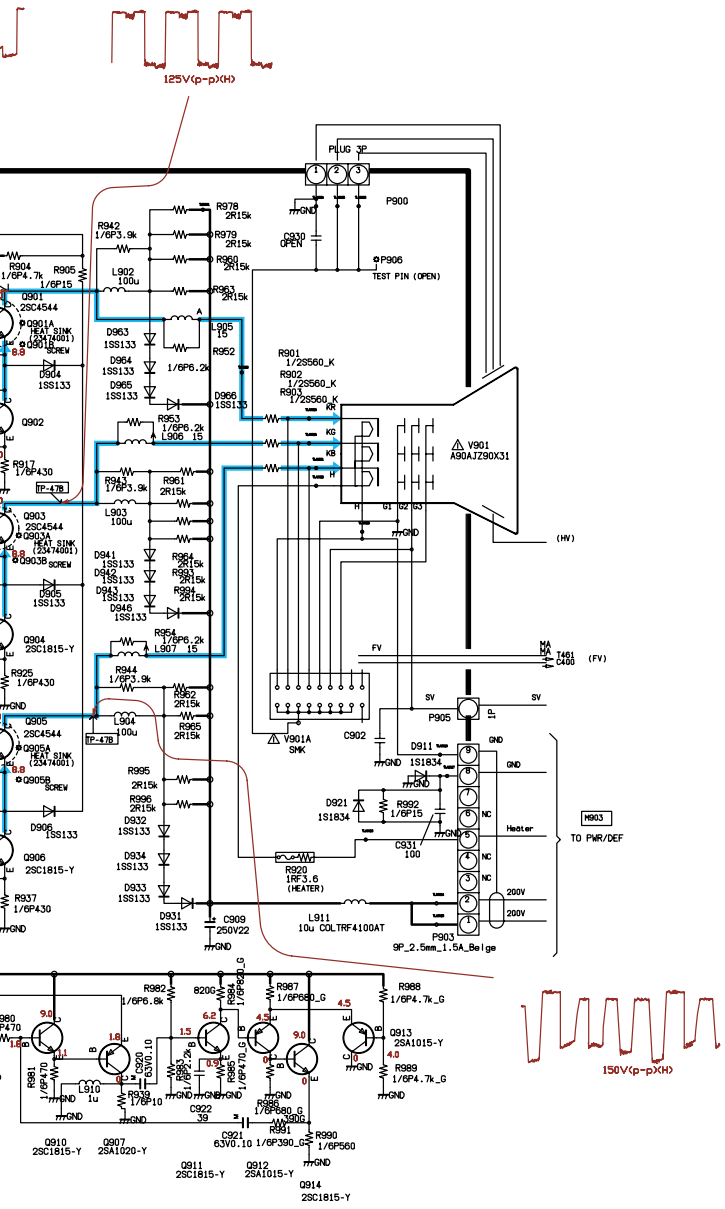
36HFX72/36HF72
POWER/DEF-V-DEF
[SHEET-4/4]

CRT-D/VM PD0164

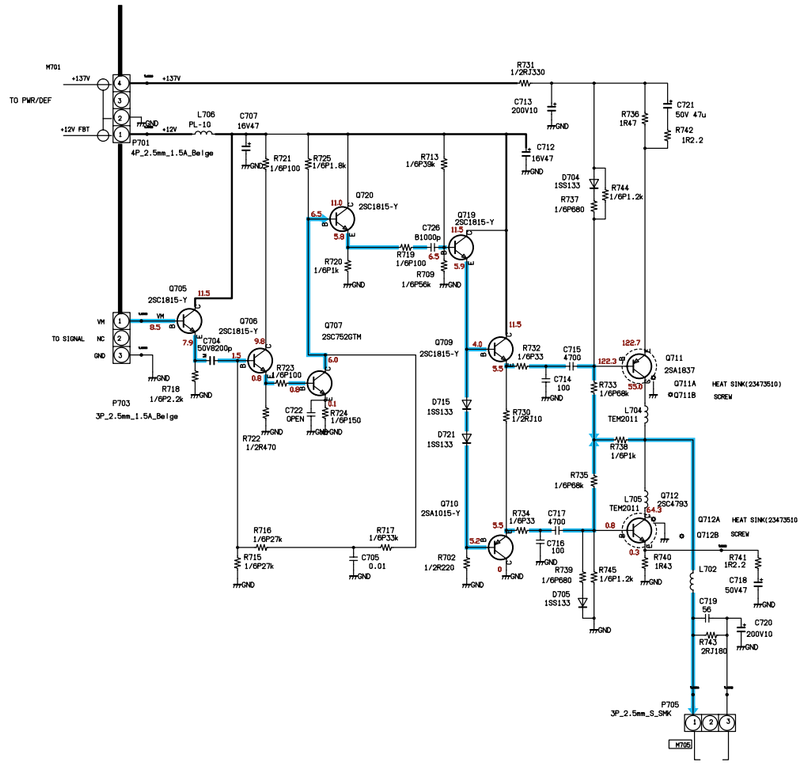


36HFX72/36HF72
CRT DRIVE
[SHEET-1/2]

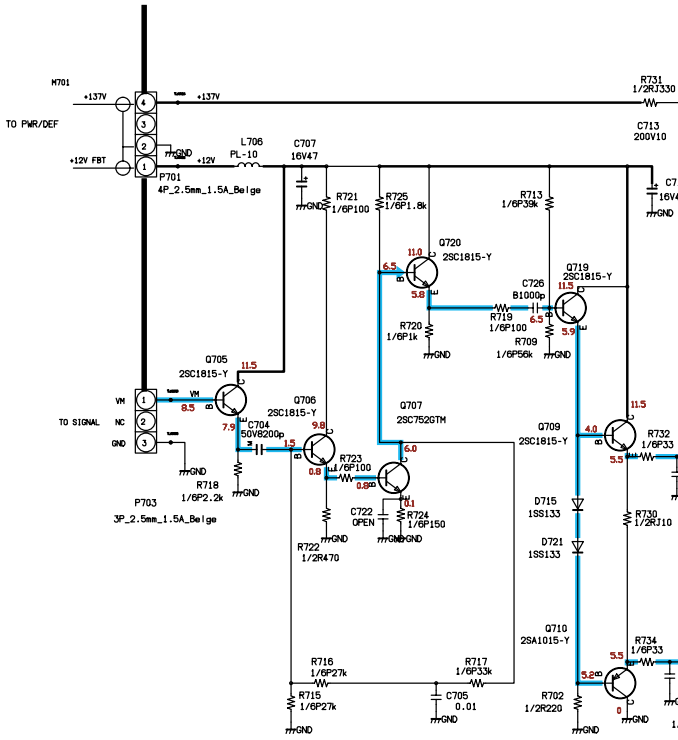

CRT-D/VM PD0164
125V(p-p)(H)
3.5V(p-p)(H)
3.4V(p-p)(H)
3.6V(p-p)(H)
TO SIGNAL
P902
7P_2.5mm_1.5A_Beige
L908
10u COLTRF4100AT
Q918
2SC1815-Y
Q919
2SC1815-Y
Q920
2SC1815-Y
Q917
2SC1815-Y
Q921
2SC1815-Y
Q922
2SC1815-Y
Q908
2SC2120-Y
TP-47R
TP-46R
TP-46G
TP-46B

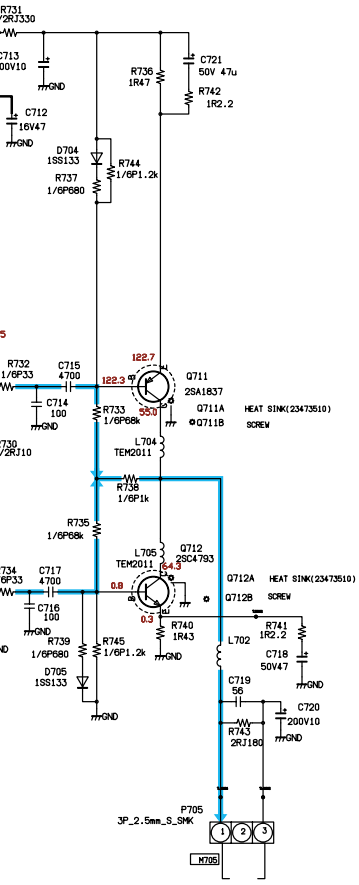


36HFX72/36HF72
CRT DRIVE
[SHEET-1/2]

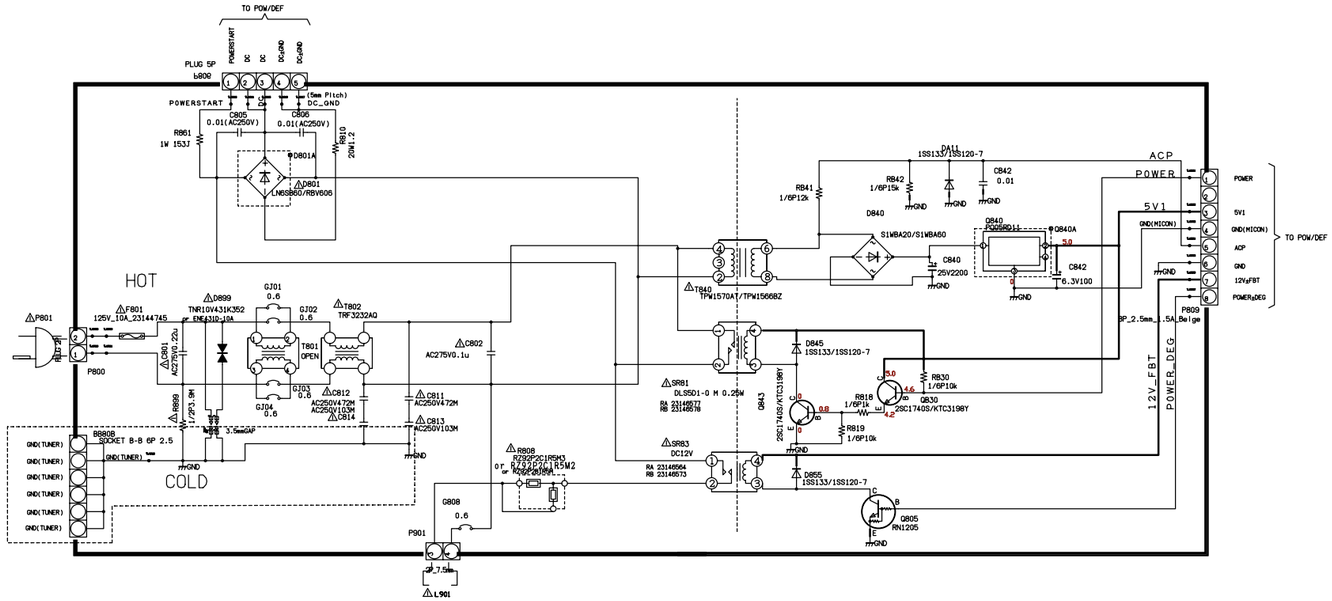


36HFX72/36HF72
SVM
[SHEET-2/2]

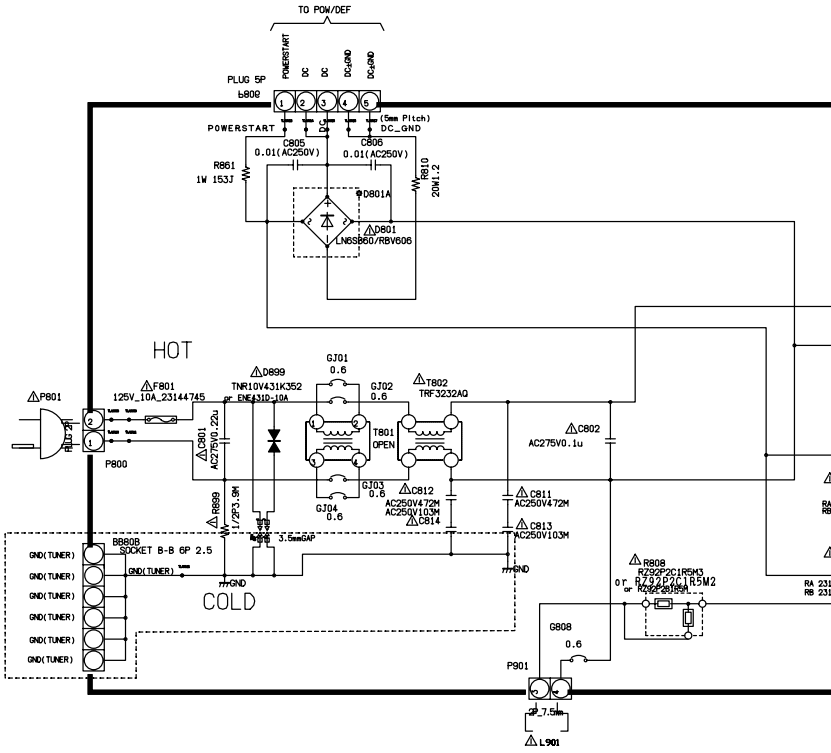

M701
+137V
+137V
TO PWR/DEF
+12V FBT
GND
+12V
P701
4P_2.5mm_1.5A_Beige
L706
PL-10
C707
16V47
R731
1/2RJ330
C713
200V10
R721
1/6P100
R725
1/6P1.8k
R713
1/6P39k
Q720
2SC1815-Y
Q719
2SC1815-Y
C726
B1000p
R719
1/6P100
R720
1/6P1k
R709
1/6P56k
Q705
2SC1815-Y
Q706
2SC1815-Y
Q707
2SC752GTM
Q709
2SC1815-Y
R732
1/6P33
VM
NC
GND
TO SIGNAL
C704
50V8200p
R723
1/6P100
R718
1/6P2.2k
P703
3P_2.5mm_1.5A_Beige
C722
OPEN
R724
1/6P150
R722
1/2R470
D715
1SS133
D721
1SS133
R730
1/2RJ10
Q710
2SA1015-Y
R734
1/6P33
R716
1/6P27k
R717
1/6P33k
R715
1/6P27k
C705
0.01
R702
1/2R220

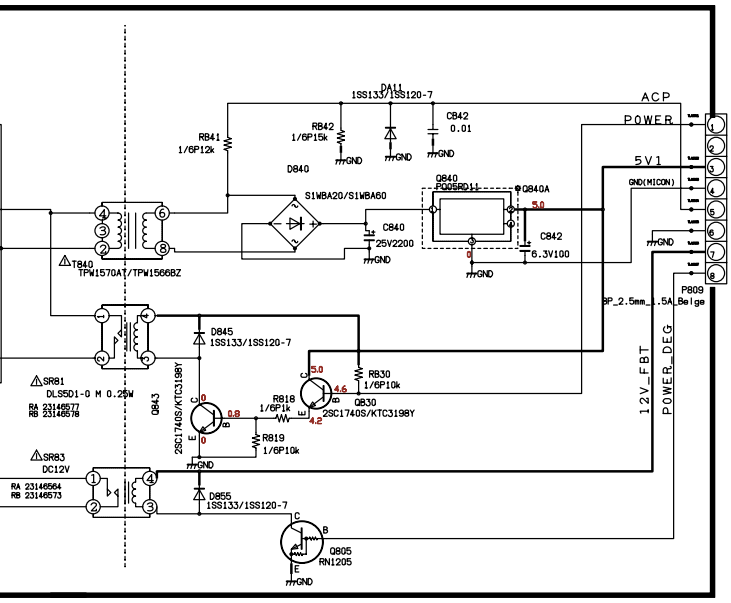


36HFX72/36HF72
SVM
[SHEET-2/2]

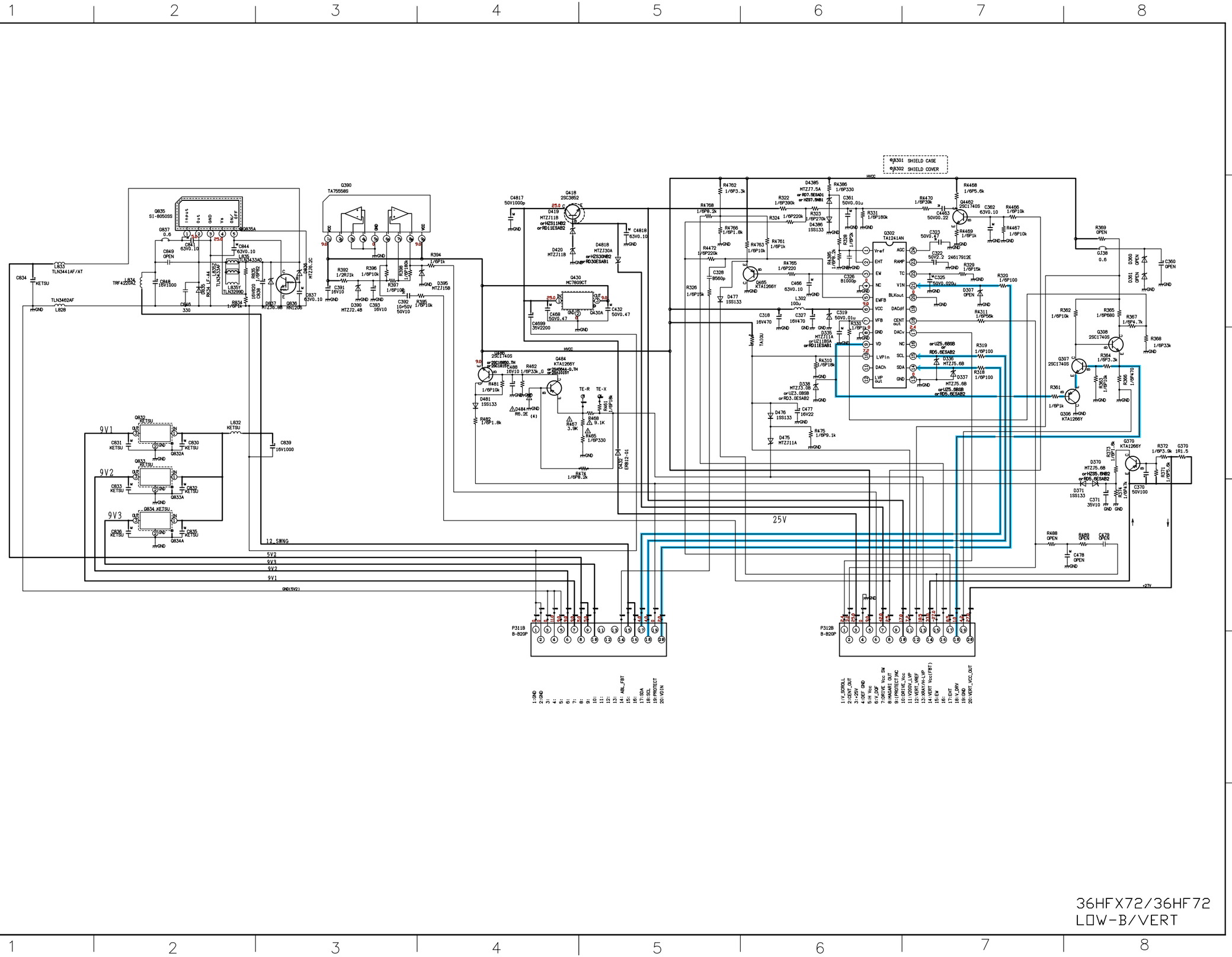


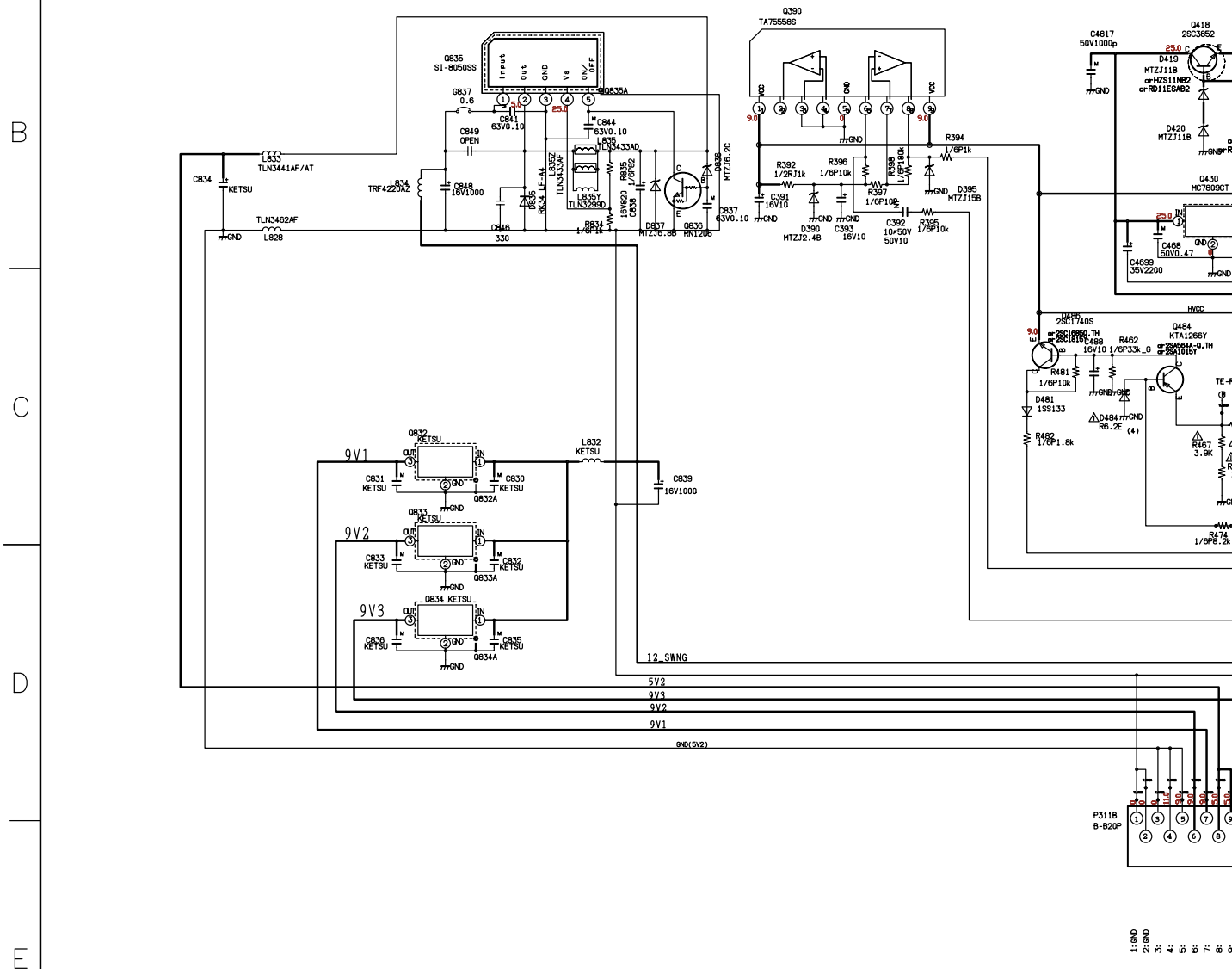
36HFX72/36HF72
AC INPUT

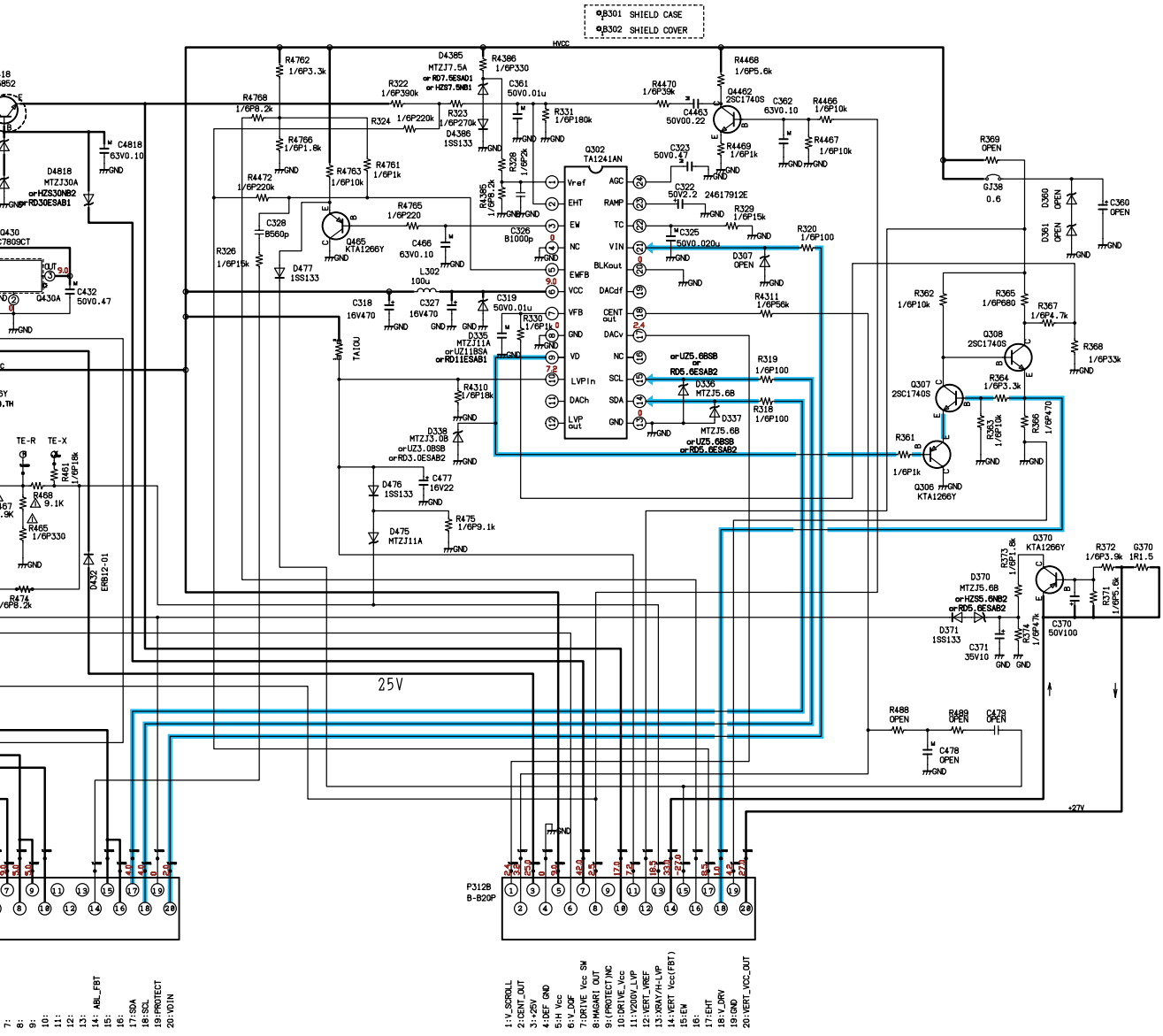

TO POW/DEF
POWERSTART
DC
DC
DC_GND
DC_GND
PLUG 5P
L800
(5mm Pitch)
DC_GND
C805
0.01(AC250V)
C806
0.01(AC250V)
R861
1W 153J
R810
20W1.2
D801A
D801
LN6SB60/RBV606
HOT
F801
125V_10A_23144745
D899
TNR10V431K352
or ENE431D-10A
GJ01
0.6
GJ02
0.6
T802
TRF3232AQ
P801
P800
C801
AC275V0.22u
T801
OPEN
C802
AC275V0.1u
GJ03
0.6
GJ04
0.6
C812
AC250V472M
AC250V103M
C814
C811
AC250V472M
C813
AC250V103M
R899
172P3.9M
3.5mmGAP
BB80B
SOCKET B-B 6P 2.5
GND(TUNER)
GND(TUNER)
GND(TUNER)
GND(TUNER)
GND(TUNER)
GND(TUNER)
GND
GND
COLD
R808
RZ92P2C1R5M3
0Ω RZ92P2C1R5M2
or RZ92P2C1R5M
G808
0.6
P901
2P_7.5mm
L901



36HFX72/36HF72
AC INPUT


Q835 SI-8050SS
Q835A
Q837 0.6
C849 OPEN
C848 16V1000
C844 63V0.10
L835 TLN3433AD
L835Y TLN3299D
R835 (OPEN)
R834 LF-R4.7KF
TLN3433AF
D838 16V620
D837 MTZ6.8C
D836 MTZ6.2C
R837 1/6P1k
R836 RN1206
C837 63V0.10
C846 330
C833 TLN3441AF/AT
C834 KETSU
L834 TRF4220A2
TLN3462AF
L828
Q390 TA75558S
R392 1/2RJ1k
R396 1/6P10k
R397 1/6P10k
R394 1/6P1k
R395 MTZJ15B
C391 16V10
C393 16V10
C392 10+50V 50V10
D390 MTZJ2.4B
R485 1/6P10k
C4817 50V1000p
Q418 2SC3852
D419 MTZJ11B or HZ11WB2 or RD11ESAB2
D420 MTZJ11B
D4818 MTZJ30A or HZ30WB2 or RD30ESAB1
C4818 63V0.10
Q430 MC7809CT
C468 50V0.47
C4699 35V2200
D430A
C432 50V0.47
Q484 KTA1266Y
R462 1/6P33k_G
R481 1/6P10k
D481 1SS133
D484 RD5.6E (4)
R482 1/6P1.8k
TE-R
TE-X
R467 3.9K
R468 9.1K
R465 1/6P330
R474 1/6P8.2K
D485 ERB12-01
HVCC
R4762 1/6P3.3k
R4768 1/6P8.2k
R4766 1/6P1.8k
R4763 1/6P10k
R4761 1/6P1k
R4472 1/6P220k
R4765 1/6P220
R326 1/6P15k
C328 B560p
Q465 KTA1266Y
C466 63V0.10
L302 100u
D477 1SS133
C318 16V470
C327 16V470
C319 50V0.01u
R330 1/6P1k_G
D335 MTZJ11A or UZ11BSA or RD11ESAB1
D338 MTZJ3.0B or UZ3.0BSB or RD3.0ESAB2
C477 16V22
D476 1SS133
D475 MTZJ11A
R475 1/6P9.1k
R4310 1/6P15k
R4385 MTZJ7.5A or RD7.0ESAB1 or HZ07.5WB1
R4386 1/6P330
R322 1/6P390k
R323 1/6P270k
R324 1/6P220k
D4386 1SS133
R4305 1/6P39k
R4306 1/6P1k
C361 50V0.01u
R331 1/6P180k
C4463 50V0.22
R4470 1/6P30k
R4469 1/6P1k
C323 50V0.47
C322 50V2.2
24617912E
C325 50V0.022u
R329 1/6P15k
R320 1/6P100
D307 OPEN
R4311 1/6P56k
R319 1/6P100
R318 1/6P100
R316 1/6P100
D337 MTZJ5.6B
D336 MTZJ5.6B
or UZ5.6BSB or RD5.6ESAB2
Q302 TA1241AN
Wref
EHT
EW
NC
EWFB
VCC
VFB
GND
VD
LVPin
DACh
LVP out
AGC
RAMP
TC
VIN
BLKout
DACdf
CENT out
DACv
NC
SCL
SDA
GND
R4468 1/6P5.6k
C362 63V0.10
R4466 1/6P10k
R4467 1/6P10k
R369 OPEN
GJ38 0.6
D360 OPEN
C360 OPEN
D361 OPEN
R362 1/6P10k
R365 1/6P680
R367 1/6P4.7k
R368 1/6P33k
Q308 2SC1740S
R364 1/6P3.3k
Q307 2SC1740S
R361 1/6P1k
R363 1/6P10k
R366 1/6P470
Q306 KTA1266Y
Q370 KTA1266Y
R373 1/6P1.8k
R372 1/6P3.9k
G370 1R1.5
R371 1/6P5.6k
D370 MTZJ5.6B or HZ05.6WB2 or RD5.6ESAB2
C370 50V100
D371 1SS133
C371 35V10
R374 1/6P1.8k
R488 OPEN
R489 OPEN
C478 OPEN
C478
R477 1/6P1.8k
R4311 1/6P56k
R4310 1/6P15k
R4305 1/6P39k
R4306 1/6P1k
R4469 1/6P1k
R4470 1/6P30k
R4468 1/6P5.6k
R4466 1/6P10k
R4467 1/6P10k
R4472 1/6P220k
R4765 1/6P220
R4766 1/6P1.8k
R4763 1/6P10k
R4761 1/6P1k
R4762 1/6P3.3k
R4768 1/6P8.2k
R326 1/6P15k
C328 B560p
C466 63V0.10
L302 100u
C318 16V470
C327 16V470
C319 50V0.01u
R330 1/6P1k_G
R322 1/6P390k
R323 1/6P270k
R324 1/6P220k
R331 1/6P180k
C361 50V0.01u
C4463 50V0.22
R4470 1/6P30k
R4469 1/6P1k
C323 50V0.47
C322 50V2.2
24617912E
C325 50V0.022u
R329 1/6P15k
R320 1/6P100
R319 1/6P100
R318 1/6P100
R316 1/6P100
C362 63V0.10
R4466 1/6P10k
R4467 1/6P10k
R369 OPEN
GJ38 0.6
D360 OPEN
C360 OPEN
D361 OPEN
R362 1/6P10k
R365 1/6P680
R367 1/6P4.7k
R368 1/6P33k
R364 1/6P3.3k
R361 1/6P1k
R363 1/6P10k
R366 1/6P470
R373 1/6P1.8k
R372 1/6P3.9k
G370 1R1.5
R371 1/6P5.6k
C370 50V100
R374 1/6P1.8k
R488 OPEN
R489 OPEN
C478 OPEN
C478
R477 1/6P1.8k
Q832 KETSU
Q832A
C831 KETSU
C830 KETSU
L832 KETSU
C839 16V1000
9V1
Q833 KETSU
Q833A
C833 KETSU
C832 KETSU
9V2
Q834 KETSU
Q834A
C836 KETSU
C835 KETSU
9V3
12_SWING
5V2
9V3
9V2
9V1
GND(5V2)
25V
+27V
P311B B-B20P
P312B B-B20P
1:GND
2:GND
3:
4:
5:
6:
7:
8:
9:
10:
11:
12:
13:
14:+ABL_FBT
15:
16:
17:SDA
18:SCL
19:PROTECT
20:VDIN
1:V_SCROLL
2:VCENT_OUT
3:+25V
4:DEF GND
5:V_DEF
6:SW_5V
7:DRIVE Vcc SW
8:HAGARI OUT
9:(PROTECT)NC
10:DRIVE_Vcc
11:VCENT_AMP
12:VERT_VREF
13:YRAY/H-LVP
14:VERT Vcc(FBT)
15:EW
16:
17:EHT
18:V_DRV
19:GND
20:VERT_VCC_OUT
SHIELD CASE
SHIELD COVER
36HFX72/36HF72
LOW-B/VERT


Q390
TA75558S
Q835
SI-8050SS
Input
Out
GND
Vs
ON/OFF
Q835A
Q837
0.6
C841
63V0.10
C844
63V0.10
C849
OPEN
L833
TLN3441AF/AT
C834
KETSU
TLN3462AF
L828
L834
TRF4220AZ
C848
16V1000
C846
330
L835
TLN3433AD
L835Y
TLN3299D
L835Z
TLN3433AE
D835
RK34 LF-A4
R835
1/6PR82
D836
MTZJ6.2C
R834
1/6P1k
D837
MTZJ6.8B
Q836
RN1206
C837
63V0.10
C391
16V10
D390
MTZJ2.48
C393
16V10
C392
10*50V
50V10
R395
1/6P10k
R394
1/6P1k
R392
1/2RJ1k
R396
1/6P10k
R398
1/6P180k
R397
1/6P10k
D395
MTZJ15B
C4817
50V1000p
Q418
2SC3852
D419
MTZJ11B
orHZS11NB2
orRD11ESAB2
D420
MTZJ11B
Q430
MC7809CT
C468
50V0.47
C4699
35V2200
HVCC
Q486
2SC1740S
Q484
KTA1266Y
C488
16V10
R462
1/6P33k_G
R481
1/6P10k
D481
1SS133
D484
R6.2E
R482
1/6P1.8k
R467
3.9K
R474
1/6P8.2k
Q832
KETSU
Q832A
Q833
KETSU
Q833A
Q834
KETSU
Q834A
9V1
9V2
9V3
C831
KETSU
C830
KETSU
C833
KETSU
C832
KETSU
C836
KETSU
C835
KETSU
L832
KETSU
C839
16V1000
12_SWNG
5V2
9V3
9V2
9V1
GND(5V2)
P311B
B-B20P
1:GND
2:GND

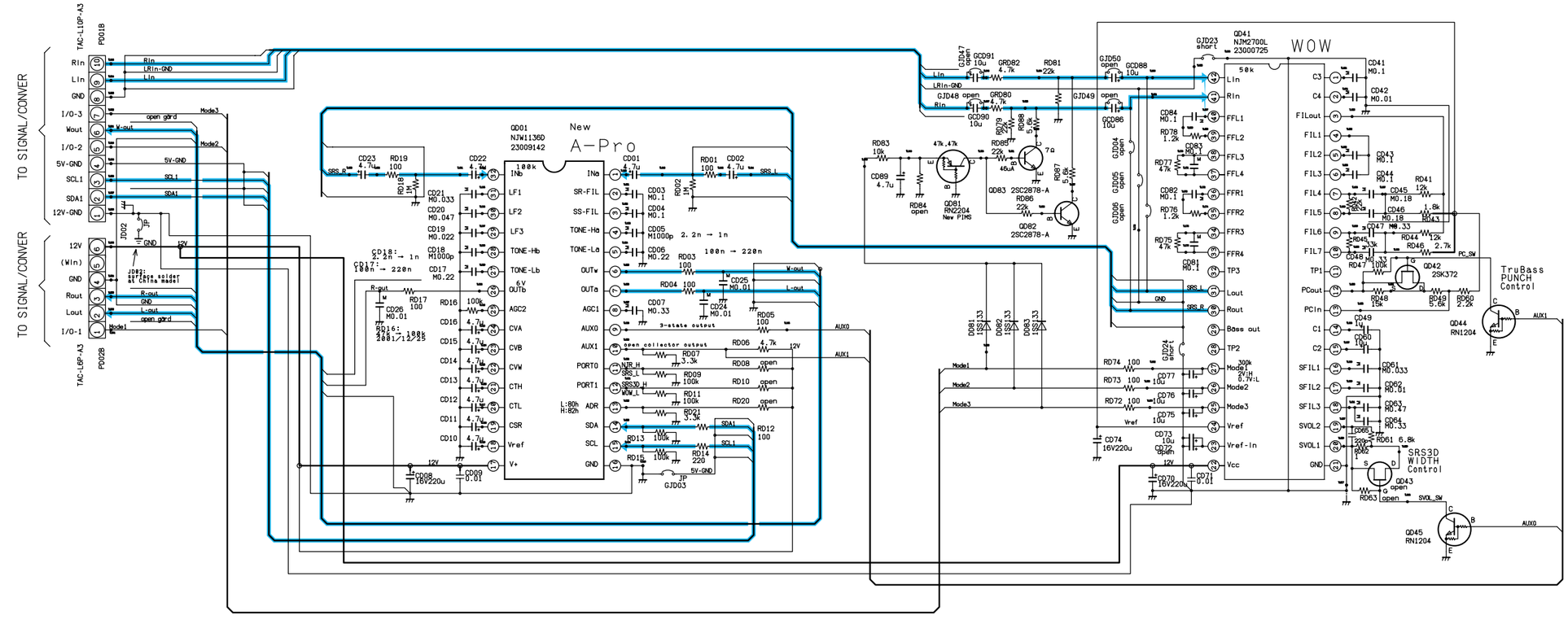


36HFX72/36HF72
LOW-B/VERT

Base model: 36HFX72
PD0645A
23787466

WOW	H	H	H
FOCUS	H	L	L
3D-STEREO	L	L	H
TruBass	L	H	L
BYPASS	L	L	L
	Mode1	Mode2	Mode3

US_LCoS_57HL82	PD0645E	45047	57HL82
US_PJ_TNP_W0W	PD0645B	23787523	50HX82
US_DView_TNP_W0W	PD0645A	23787466	36HFX72
US_PJ_TNP_W0W_#1	FWD666	44806	50HX82_#1
US_DView_TVE	PDxxx6	2378xxx6	34HF81-
US_DView_TNP_W0W_#1	FWD666A	44814	36HFX72_#1
Asia_PJ_TSP_W0W	PDxxx4	2378xxx4	43VH9UE
Asia_PJ_DLTV_W0W	PD0645D	45131	43VH9UC
Asia_DView_TVE_W0W	PD0645C	44939	29VX9UH
Asia_DView_TVE_A-Pro	FWD666B	44930	29VH9UH
	unit	SN	model



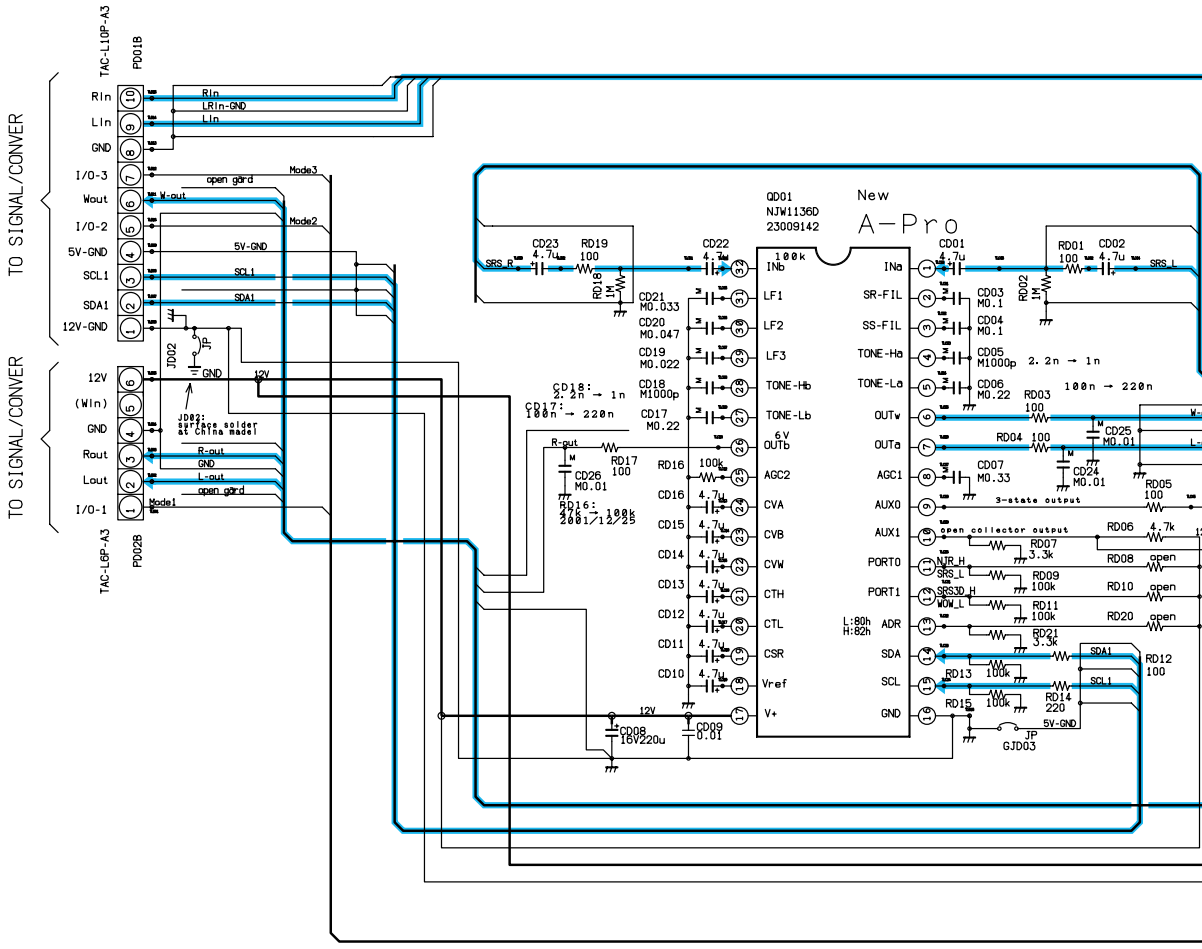
36HFX72/36HF72
SRS-W□W

Base model: 36HFX72

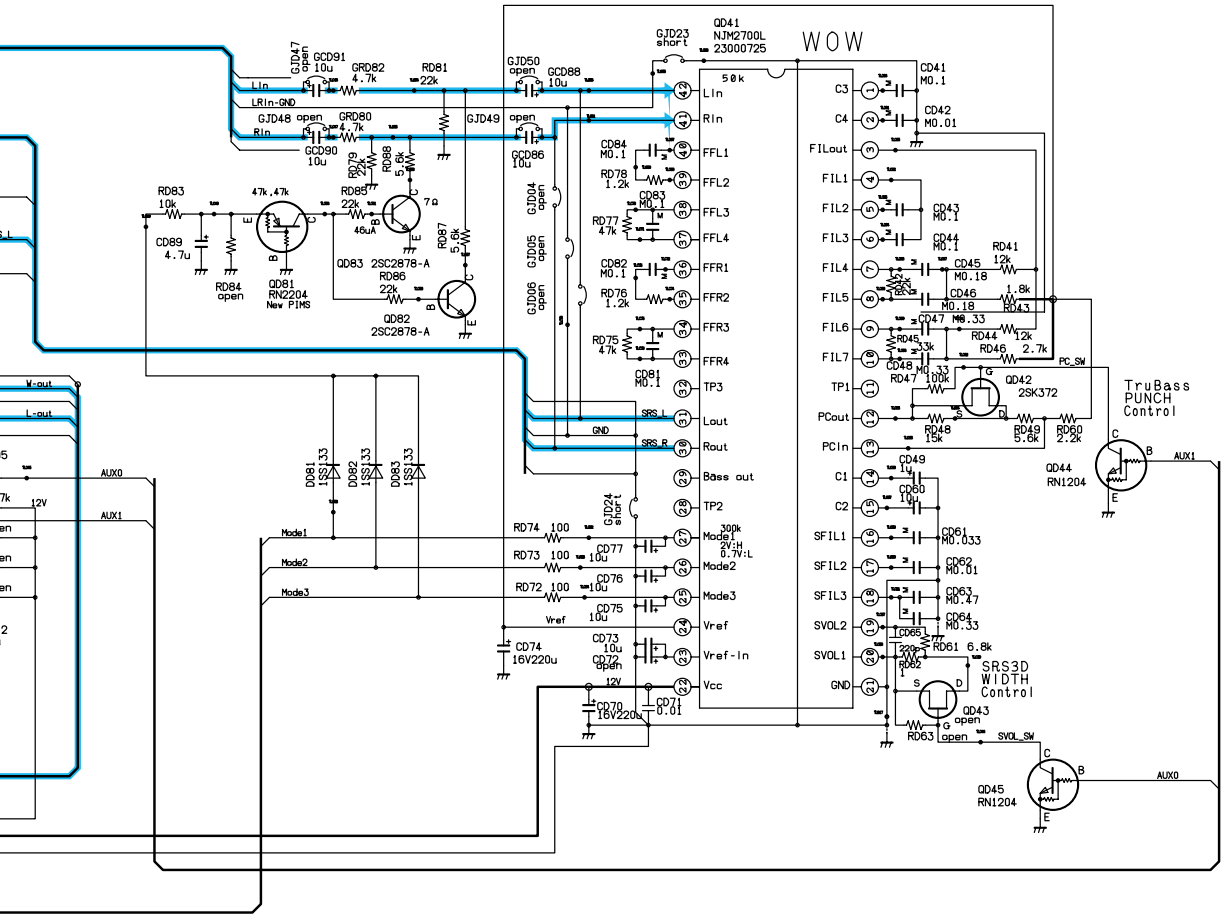
PD0645A

23787466

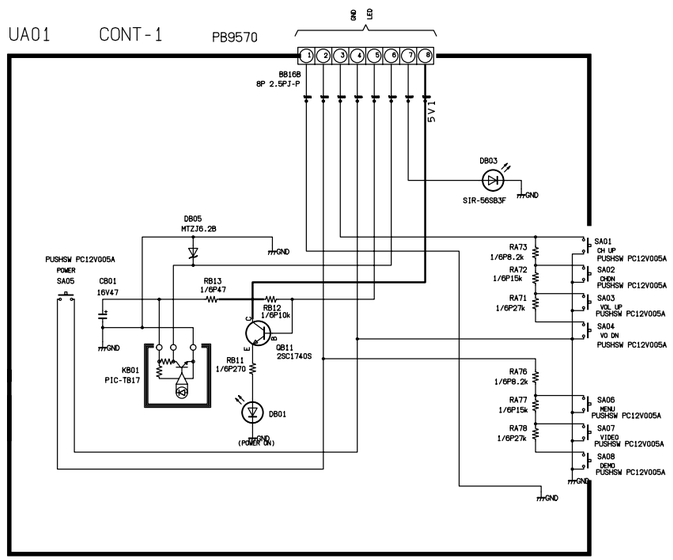
WOW	H	H	H
FOCUS	H	L	L
3D-STEREO	L	L	H
TruBass	L	H	L
BYPASS	L	L	L
	Mode1	Mode2	Mode3



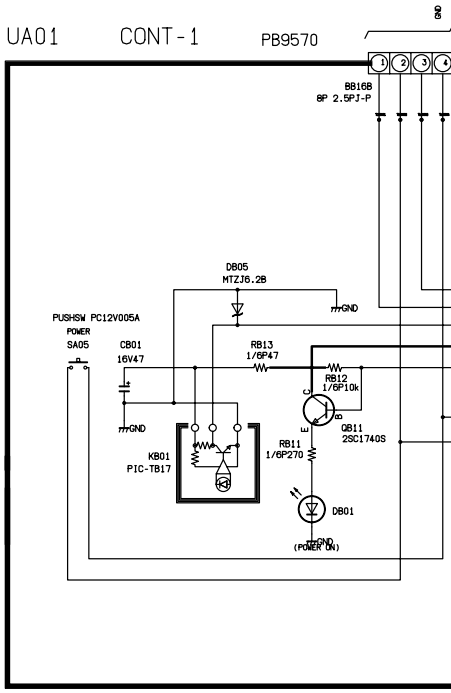
US_LCoS_57HL82	PD0645E	45047	57HL82
US_PJ_TNP_W0W	PD0645B	23787523	50HX82
US_DView_TNP_W0W	PD0645A	23787466	36HFX72
US_PJ_TNP_W0W_#1	FWD666	44806	50HX82_#1
US_DView_TVE	PDxxx6	2378xxx6	34HF81-
US_DView_TNP_W0W_#1	FWD666A	44814	36HFX72_#1
Asia_PJ_TSP_W0W	PDxxx4	2378xxx4	43VH9UE
Asia_PJ_DLTV_W0W	PD0645D	45131	43VH9UC
Asia_DView_TVE_W0W	PD0645C	44939	29VX9UH
Asia_DView_TVE_A-Pro	FWD666B	44930	29VH9UH
	unit	SN	model

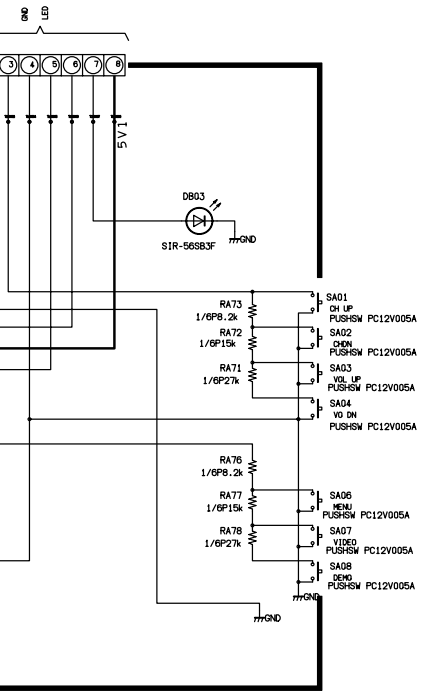


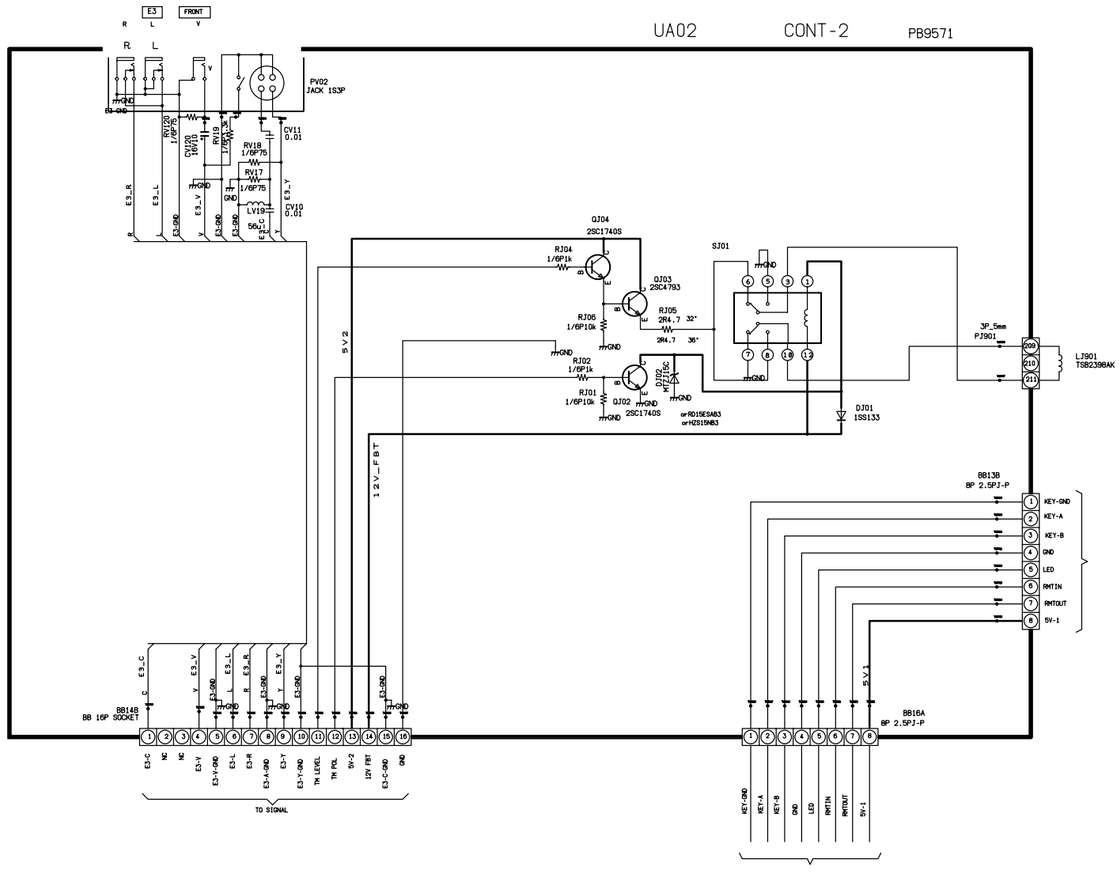
36HFX72/36HF72
SRS-W□W



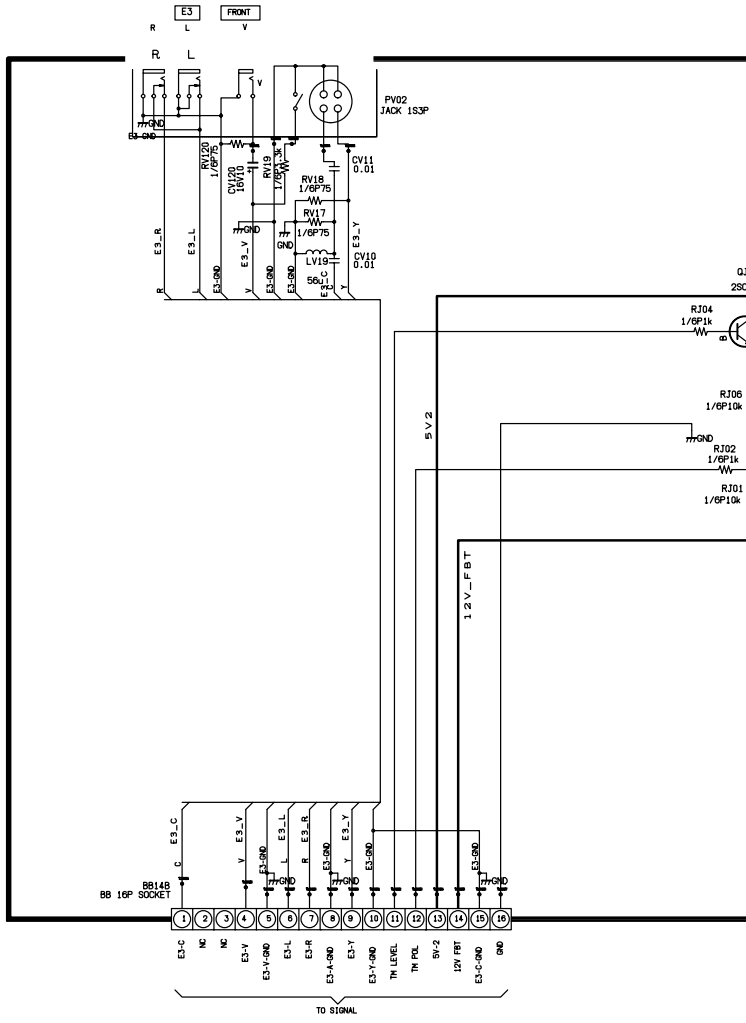
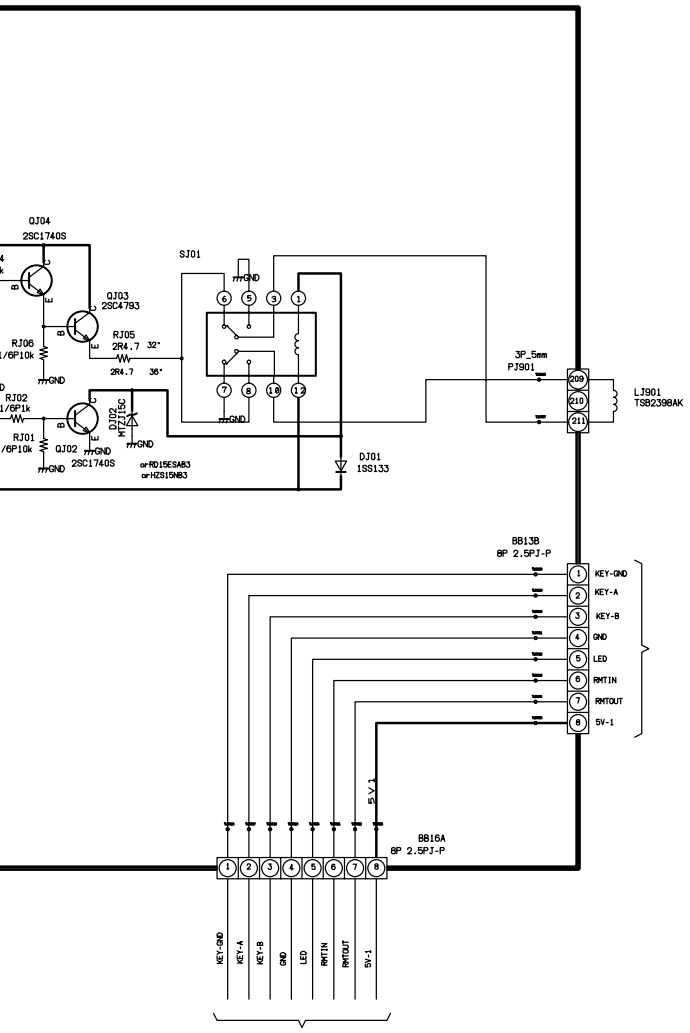
36HFX72/36HF72
CONTROL-1


UA01
CONT-1
PB9570
BB16B
8P 2.5PJ-P
DB05
MTZJ6.2B
PUSHSW PC12V005A
POWER
SA05
CB01
16V47
RB13
1/6P47
RB12
1/6P10k
QB11
2SC1740S
KB01
PIC-TB17
RB11
1/6P270
DB01
(POWER ON)


GND
LED
5V1
DB03
SIR-56SB3F
GND
RA73
1/6P8.2k
RA72
1/6P15k
RA71
1/6P27k
SA01
CH UP
PUSHSW PC12V005A
SA02
CHDN
PUSHSW PC12V005A
SA03
VOL UP
PUSHSW PC12V005A
SA04
VO DN
PUSHSW PC12V005A
RA76
1/6P8.2k
RA77
1/6P15k
RA78
1/6P27k
SA06
MENU
PUSHSW PC12V005A
SA07
VIDEO
PUSHSW PC12V005A
SA08
DEMO
PUSHSW PC12V005A
GND
GND



36HFX72/36HF72
CONTROL-2


E3
FRONT
R
L
V
PV02
JACK 1S3P
RV120
1/6P75
CV120
16V10
RV19
1/6P75
RV18
1/6P75
RV17
1/6P75
CV11
0.01
CV10
0.01
LV19
56uH
E3_R
E3_L
E3_V
E3_Y
E3_C
E3-GND
GND
RJ04
1/6P1k
RJ06
1/6P10k
RJ02
1/6P1k
RJ01
1/6P10k
5V2
12V_FBT
BB14B
BB 16P SOCKET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
E3-C
NC
NC
E3-V
E3-V-GND
E3-L
E3-R
E3-L-GND
E3-Y
E3-Y-GND
TM LEVEL
TM POL
5V-2
12V FBT
E3-C-GND
GND
TO SIGNAL

UA02 CONT-2 PB9571